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February 18, 2014

2013-3007-07

Mr. Peter Ruttan
California Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, CA 95826

RE: Off-Site Soil Sampling Report
Exide Technologies
Vernon, California

Dear Mr. Ruttan:

Advanced GeoServices is pleased to submit this Off-Site Soil Sampling Report on behalf of Exide Technologies (Exide). The report contains the results of the sampling program conducted in residential areas and at two schools in the general vicinity of Exide's Vernon, California facility. The work was performed in accordance with the approved Work Plan for Off-Site Soil Sampling dated November 15, 2013.

If you have any questions regarding this report, please contact Barbara Forslund at 610-840-9145 or bforslund@advancedgeoservices.com.

Respectfully submitted,

ADVANCED GEOSERVICES

Paul G. Stratman, P.E.
Senior Project Consultant

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Enclosure

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OFF-SITE SOIL SAMPLING REPORT
EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

Prepared for:
EXIDE TECHNOLOGIES
Vernon, California

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EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

Prepared For:

EXIDE TECHNOLOGIES
Vernon, California

Prepared By:

ADVANCED GEOSERVICES
West Chester, Pennsylvania

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EXIDE TECHNOLOGIES
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TABLE OF CONTENTS

PAGE NO.

LIST OF TABLES

TABLE

LIST OF TABLES
(Continued)

TABLE

LIST OF FIGURES

FIGURE

LIST OF APPENDICES

APPENDIX

EXECUTIVE SUMMARY

In November 2013, Exide Technologies, (through its contractors, Advanced GeoServices Corp., ENVIRON International Corporation) with oversight by the California Department of Toxic Substances Control (DTSC), conducted soil sampling at residential properties in the general vicinity of the Exide Technologies facility in Vernon, California,, at two area schools and in a background area located about 14 miles to the south of the facility. The purpose of the sampling was to determine whether off-site residential soils had concentrations of selected constituents that are greater than background or residential screening values.

Sampling took place in areas determined by DTSC based on previously approved air modeling. The Northern Assessment Area for soil sampling, located in Boyle Heights and East Los Angeles, was established based on the maximum exposed individual resident (MEIR) for arsenic emissions, while the Southern Assessment Area, located in Maywood, was based on the MEIR for lead emissions. The two schools, one located north of the facility and one located south of the facility, were also selected based on the air model predictions of maximum exposure. The Background Area was located in Long Beach and was selected as a similar residential area located proximate to freeways, industrial areas and a sizable rail yard with an intermodal facility and switching yard.

Nineteen properties were sampled in the Background Area, nineteen properties were sampled in the Northern Assessment Area and twenty properties were sampled in the Southern Assessment Area. Samples were taken from three depth intervals, 0 to 1 inch, 1 to 3 inches and 3 to 6 inches below the ground surface, and the samples analyzed for up to 24 constituents selected by DTSC. The results were compared to the site specific background and U.S. Environmental Protection Agency (USEPA) and DTSC soil screening levels. However, in and of themselves, screening levels are not cleanup levels or indicative of hazardous conditions. Thus, an additional comparison for the soil lead results was made to the California Department of Public Health (CDPH) defined hazard level for bare soils where children play of 400 mg/kg and the hazard level for all soils of 1000 mg/kg.

While the soils in the Northern and Southern Assessment Areas had lead concentrations above background and the DTSC soil screening level of 80 mg/kg at all three depth intervals, the surface soils (0 to 1 inch) all had concentrations below the CDPH defined hazard level of 400 mg/kg, indicating that immediate action is not needed on the properties. For the samples below the surface interval where children are less likely to be exposed, 75 out of 78 samples from the Assessment Areas were below the CDPH hazard level. The median soil lead level in the Northern Assessment Area is higher than the median soil lead level in the Southern Area at 162 mg/kg and 134 mg/kg, respectively.

The arsenic concentrations in all samples from all properties were well below the arsenic soil screening level of 12 mg/kg. The results for all other constituents were typically below their respective soil screening level or background. Dioxin furans were detected at similar concentrations in all samples tested (five surface samples from each area were tested), including the Background Area, at levels above the soil screening level but below the clean-up levels established by DTSC (DTSC, 2011).

Sampling results at the southern school location were all below residential soil screening values for all constituents (including lead and arsenic) at the depth intervals tested. For the northern school which is located within a Los Angeles County park, the sample results were below the soil screening levels for metals in the 0 to 1 inch and 3 to 6 inch intervals. The soil lead level in the 1 to 3 inch interval sample slightly exceeded the DTSC screening level at 95.4 mg/kg. This concentration is substantially below the CDPH hazard level of 400 mg/kg. The northern school samples also exceeded the screening values for total PCBs in the 0 to 1 and 1 to 3 inch depth intervals. Since the facility is not a significant source of PCBs and PCBs were not detected in residential samples that were located closer to the facility, it does not appear that the PCB concentrations detected in the northern school soils are related to emissions from the facility. A single PAH compound, benzo (a) pyrene, was detected at a concentration above respective screening level in the 0 to 1 inch and 1 to 3 inch depth intervals; the concentration was consistent with background conditions.

There are several factors that indicate that the facility is not the sole contributor to the lead levels observed in the Assessment Areas. First, there is much more lead in the soils than arsenic while agency-approved air modeling indicates that the lead and arsenic concentrations would be at about the same level if all of the lead came from the Exide facility. The air modeling would indicate that the lead concentrations in the Northern and Southern Assessment Areas would also be about the same which is not observed in the data. The lead concentrations are not much higher in the surface interval than they are at depth nor is the lead highly concentrated in the fine fraction, both of which is what is typically seen with lead impacts to soils from air emissions. There is no spatial relationship or pattern to the results that would tie them to the facility such as higher concentrations in samples closer to the facility. All of these observations point towards other contributing sources of lead in the residential area.

The soil sampling program was not designed to evaluate contributions from different sources of lead. Contributions from lead-based paint are the most common, and there are indications that lead-based paint is a contributor to soil lead in these soils. Soil lead concentrations in the properties tested here track the age of the houses on the properties. The Northern Assessment Area has the oldest housing with a median year of house construction of 1923, and the soil lead concentrations are highest in this area. The Southern Assessment Area has a median year of house construction of 1937 and the soil lead concentrations are lower than the Northern

Assessment Area. The Background Area has the newest housing with a median year of house construction of 1950, and the soil lead concentrations are the lowest. Historic use of leaded gasoline is a known contributor to soil lead levels, and is another potential contributor here with the Northern Assessment Area being close to numerous major freeways and having more heavily trafficked secondary streets than either the Southern Area or the Background Area.

Exide is presently performing a related step-out investigation that is designed to delineate soil lead and surface dust lead loading in off-site areas, both residential and industrial. In addition, Exide is conducting blood lead monitoring and will perform a risk assessment that specifically addresses the potential health risk from the soil concentrations observed here. Given the lack of clearly defined relationship between the observed concentrations and the facility and considering that the results overall are below levels that indicate immediate action is needed, we recommend that a decision to conduct further residential soil sampling on a property by property basis be deferred until the step-out investigation and risk assessment calculations are completed.

1.0 INTRODUCTION

This Off-Site Soil Sampling Report has been prepared by Advanced GeoServices Corp. (Advanced GeoServices) on behalf of Exide Technologies, Inc. (Exide) to document the off-site soil sampling performed in residential areas during November 14 through November 22, 2013. Additionally, sampling was performed at two local schools on November 27, 2013 and January 24, 2014. The sampling was performed consistent with the Work Plan for Off-Site Soil Sampling dated November 13, 2013 and approved by the California Department of Toxic Substances Control (DTSC) on November 18, 2013.

The off-site soil sampling was conducted at the direction of DTSC to determine whether soils at residential properties within the Northern Assessment Area and Southern Assessment Area in the general vicinity of the Exide Technologies facility in Vernon, California contain constituents that exceed background or the Residential Soil Screening Values defined herein, whichever is higher. The Northern and Southern Assessment Areas were selected based on air modeling performed by ENVIRON International Corporation (ENVIRON) to estimate the location of the Maximum Exposed Individual Resident (MEIR) (ENVIRON, 2013a). The Northern Assessment Area is located in Boyle Heights and East Los Angeles, about 4150 feet to the north of the Exide facility. The Southern Assessment Area is located in Maywood, about 4560 feet to the south of the facility. Two schools were also sampled which were selected based on the maximum school receptor locations determined by the model. The northern school is about 6400 feet to the north, and the southern school is almost 9500 feet to the south of the facility. The Exide Vernon facility, the Northern and Southern Assessment Areas and the two school locations are shown on Figure 1.

To provide a basis for comparing data from the Northern and Southern Assessment Areas, a Background Area was selected because of its proximity to major freeways, a historically industrial area, a sizable rail yard with intermodal facility and switching yard, and housing of similar size and density. The Background Area was located about 14 miles to the south of the Exide facility as shown on Figure 2.

Analyses were performed on samples for the Constituents of Potential Concern (COPCs) selected by DTSC: arsenic (As), lead (Pb), antimony (Sb), cadmium (Cd) and total chromium (Cr), polycyclic aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs). A subset of samples was also tested for dioxins/furans and hexavalent chromium (Cr-VI).

2.0 PROPERTY ACCESS

Advanced GeoServices used the Los Angeles County tax assessor website to determine the addresses of the properties within the three study boundaries (Northern and Southern Assessment Areas and the Background Area). The website provided information on the property as a single family or multi-family property. Multi-family properties indicated properties in which there were tenants, and Advanced GeoServices did not target these properties for access. Additionally, access was obtained from the Los Angeles County Unified School District and the Los Angeles County Department of Parks and Recreation for the southern and northern school locations, respectively.

Prior to sampling a property, written access was obtained from the property owner. Access agreements were prepared in both English and Spanish along with a flyer that provided additional information as shown in Appendix A. Initially, a bilingual representative of ENVIRON solicited access in the Northern and Southern Assessment Areas accompanied by a representative of DTSC. Properties with single family homes were targeted as they were more likely to be owner occupied. As the work progressed, the ENVIRON field crew and an Advanced GeoServices representative solicited access to properties concurrent with the sampling activities along with a representative from DTSC. For the Northern and Background Areas, access was received for 19 properties in each area, while in the Southern Area, 20 access agreements were obtained due to concurrent efforts by the field crew and the Advanced GeoServices representative. Properties closest to the MEIR location within the Northern and Southern Assessment Areas were targeted to the extent possible.

3.0 SAMPLING PERFORMED

After obtaining signed access agreements from the property owners, representatives from ENVIRON, including one bi-lingual representative, reported to each property. A DTSC representative also observed the sampling effort to the extent their schedule allowed. The property was reviewed, and with input from DTSC, five (5) sample locations were determined based on the layout of the property. The sampling targeted bare, exposed soils and open grassy areas. No tree lawns (grassy areas between sidewalks and roadways) were sampled as part of any property. Samples were not collected from the exclusionary areas provided below.

- Within areas that were recently disturbed;
- Within five (5) feet of painted permanent structures;
- Within one (1) foot of downspouts or stormwater drainage features;
- Within two (2) feet of a roadway;
- Within five (5) feet of potential property specific contamination sources (e.g. trash burning areas, waste storage areas, etc.); and,
- Beneath crushed stone, dirt or gravel driveways or parking areas.

On a few properties, it was noted that automobiles were periodically parked on the property, and consequently, sampling was not conducted in these areas.

The Work Plan required that an additional two samples be collected where distinct play areas were observed. No distinct play areas were observed on any of the properties where samples could be collected. Two school properties were also sampled using the five-point composite sampling protocol similarly to the residential properties. On the school properties, areas where children could come into contact with the soils were targeted. Again, bare soils and grassy areas were targeted for sample collection.

Consistent with the Work Plan, samples were collected from three depth intervals in each of the five sampling locations. The three depth intervals were from 0 to1 inches, 1 to 3 inches and 3 to 6 inches below the ground surface. Care was taken when removing existing turf, and the turf was replaced following the sample collection. Following sampling, new topsoil was placed in the remaining holes as backfill and turf replaced as needed.

Sampling methods included using stainless steel trowels, a split core sampler and an auger sampler. When the split core sampler was utilized, all three horizons were collected in one plastic sleeve. The sleeve was then cut to collect each separate horizon and place the soil in the sample jar. Otherwise, trowels were used to collect the 0 to 1 inch and 1 to 3 inch samples, and the auger was used to collect the 3 to 6 inch sample. The field crew collected a similar volume from each sample location to provide equal amounts of soil from each discrete location for the composite sample. Following sampling on each property, the sampling equipment was decontaminated consistent with the Work Plan.

For each of the Background, Northern and Southern Assessment Areas, a duplicate sample was co-located at one of the properties and submitted to the laboratory. Additionally, an equipment blank was taken for each area and school location for a total of five equipment blanks and submitted with the soil samples.

As each individual sample for a given horizon was collected, it was placed in a 16 oz. glass jar until all samples were obtained. Typically, the 3 to 6 inch depth interval sample utilized two 16 oz. jars. The jars were then placed on ice in a cooler for either pickup by or transport to Calscience Environmental Laboratories (Calscience) of Garden Grove, California.

Field sketches were created for each property sampled. The locations of driveways, sidewalks, buildings and any other features pertinent to the sampling locations and exclusion areas were provided on the sketch. The sketches have been redacted to remove the property address for property owner privacy and are provided as Appendix B of this report.

4.0 LABORATORY PREPARATION AND ANALYSIS

All samples were submitted to Calscience for analysis. Once received, Calscience homogenized the soils following their standard operating procedure. All samples from the 0 to 1 inch and 1 to 3 inch depth intervals were analyzed for arsenic (As), lead (Pb), antimony (Sb), cadmium (Cd) and total chromium (Cr), PAHs and PCBs. In addition, the 0 to 1 inch and 1 to 3 inch depth interval samples from four properties in each area (20%) were sieved by Calscience through a #60 sieve following homogenization, and the passing fraction (the portion <#60 sieve) was tested for metals only. Samples from the schools were not sieved. Samples from the 3 to 6 inch depth interval in the Assessment and Background Areas were tested for soil lead only. The 3 to 6 inch depth interval sample from the southern school was not analyzed. All results were compared to the Residential Soil Screening Values provided in Table 1.

Additionally, 5 samples from the 0 to 1 inch depth interval from each of the Assessment and Background Areas were tested for dioxins/furans. These samples were forwarded by Calscience to Maxxam Analytics International Corporation (Maxxam) of Mississauga, Ontario who performed the analysis. As per the approved Work Plan, the samples from the two schools were not tested for dioxins/furans.

The Work Plan also called for analyzing any sample for hexavalent chromium if the total chromium result exceeded the Residential Soil Screening Level for hexavalent chromium of 0.29 mg/kg. Since all of the total chromium results exceeded 0.29 mg/kg, Advanced GeoServices requested that the samples with the 10 highest total chromium results in each of the Northern and Southern Assessment Areas be tested for hexavalent chromium by Calscience for a total of 20 hexavalent chromium results. This variation to the Work Plan was made because the hexavalent chromium results presented in the Step-Out Dust and Soil Sampling Report (ENVIRON, 2013b) by ENVIRON were all below the detection limit with similar total chromium results. DTSC was notified of this change by email on January 24, 2014. The samples from the two schools were not tested for hexavalent chromium.

5.0 SAMPLING RESULTS AND DATA EVALUATION

Following receipt of the testing results, Advanced GeoServices performed a Level 1 review and validation of the results for the laboratory analyses performed by Calsicence and Maxxam. Complete data tables are presented in Appendix C with validation reports and laboratory data packages provided on disk.

Advanced GeoServices reviewed the data and performed a 95th Upper Confidence Limit on the Mean (UCL) calculation using United States Environmental Protection Agency's (EPA's) ProUCL program. The 95th UCL calculations are provided in Appendix C.

5.1 LEAD AND ARSENIC RESULTS

Tables 2 through 7 present the results from the inorganic analyses of samples from the Background and Northern and Southern Assessment Areas in the 0 to 1 inch and 1 to 3 inch depth intervals. Samples from the 3 to 6 inch depth interval were analyzed for lead only; the results are presented in Table 8. Table 9 provides summary statistics for the soil lead results for all depth intervals.

Overall, there is a distinct difference in lead concentrations between the Assessment Areas and the Background Area as shown on Figure 3. In the 0 to 1 inch depth interval, the lead levels in the Northern Assessment Area are the highest with a median concentration of 162 mg/kg while the median concentration in the Southern Assessment Area is 134 mg/kg. These values can be compared to the median concentration in the Background Area of 54.8 mg/kg. The 95th UCL lead concentration in the Background Area is 76.6 mg/kg, just under the Residential Soil Screening Value, so the results in the Assessment areas are compared to the screening value of 80 mg/kg. Arsenic concentrations were all below the 12 mg/kg Residential Soil Screening Value in each of the three areas.

The median lead concentrations in the 1 to 3 inch interval results tend to be slightly higher than the 0 to 1 inch interval in all three areas. In the Background Area, the median soil lead concentration in the 1 to 3 inch depth interval increases to 58.9 mg/kg from the median concentration of 54.8 mg/kg in the 0 to 1 inch interval. The median concentration increases to 177 mg/kg from 162 mg/kg in the Northern Assessment Area and to 153 mg/kg from 134 mg/kg in the Southern Assessment Area. The median lead concentrations remain elevated in the 3 to 6 inch depth interval, as shown in Figure 3.

The lead concentration for the 3 to 6 inch depth interval sample for one property within the Northern Assessment Area was reported as 2030 mg/kg. The 0 to 1 inch and 1 to 3 inch depth interval sample results were 342 and 454 mg/kg, respectively, at the property. Given the distinct difference in lead concentrations from the overlying samples, Advanced GeoServices requested the laboratory to analyze three additional aliquots from the 3 to 6 inch interval sample. The results of the additional analyses were 419, 385 and 381 mg/kg, consistent with the other results for the property. While review of the data through the validation process did not provide an explanation for the original result, given the other data for the property and the results at nearby properties, it can be concluded that the original result was anomalous and not representative of the conditions at the property. Consequently, the original result is not being used in the data evaluation; the average concentration of the three samples is 395 mg/kg which was used for the calculations.

Eight samples from each of the Background, and Northern and Southern Assessment Areas were sieved as part of the sampling analysis. The data are provided as Table 10. A linear regression analysis was performed between the two data sets as shown on Figure 4. The regression shows that the lead concentrations in the sieved samples is only slightly higher than the concentration in the original unsieved sample indicating that the lead is not highly concentrated in the fine fraction.

The lead data for 0 to 1 inch depth interval for the Northern and Southern Assessment Areas was plotted relative to the Exide facility to assess the spatial relationship between the sample results and the facility. As shown on Figures 5 and 6, the lead results do not show any trends of decreasing concentration with increasing distance from the facility.

5.1.1 Comparison of Lead and Arsenic Levels in the Northern and Southern Assessment Areas

As previously noted, the Assessment Areas were selected based on air modeling performed by ENVIRON as part of the AB2588 Health Risk Assessment dated January 2013 (ENVIRON, 2013a) that was reviewed by the South Coast Air Quality Management District which indicated its concurrence in an approval letter dated March 1, 2013. The modeling established the MEIR and the maximum school receptor locations for lead and arsenic that are shown on Figure 1. The Northern Assessment Area was based on the MEIR for arsenic while the Southern Assessment Area was based on the MEIR for lead. The following table shows the modeled air concentrations at the MEIR locations:

	Max. Lead Conc. (ug/m^3)	Max. Arsenic Conc. (ug/m^3)
North MEIR	3.12E-03	1.08E-03
South MEIR	3.76E-03	8.23E-04

The modeling shows that lead impacts from the facility would be expected to be similar between the Northern and Southern Assessment Areas. However, the lead data show a distinct difference in concentrations between the Northern and Southern Assessment Areas with median concentrations of 162 mg/kg versus 134 mg/kg, respectively in the 0 to 1 inch depth interval while the median arsenic concentrations are similar (3.13 mg/kg versus 1.94 mg/kg).

This difference in lead concentrations indicates that there is another source (or sources) of lead contributing to the observed concentrations in the Assessment Areas.

5.1.2 Soil Lead Concentrations Compared to House Age

A common contributor to soil lead concentrations in residential areas is lead-based paint which was commonly used in housing up until it was banned in 1978 (USEPA, 1996). To evaluate whether lead-based paint may be contributing to the observed soil lead concentrations, house ages were determined using Zillow (www.zillow.com) and plotted against the lead result for the 0 to 1 inch depth interval sample. The result of this comparison is shown on Figure 7 which shows that higher soil lead levels were encountered in older housing. The three areas that were sampled have housing stock of differing ages which track the differences in soil lead concentrations. The Northern Assessment Area has the oldest housing with the median year of house construction of 1923 and the highest median soil lead concentration at 162 mg/kg. The Southern Assessment Area has housing stock that is less old with a median year of house construction of 1937, and the median soil concentration is 134 mg/kg. The background area has the newest housing with a median construction year of 1950 and the lowest median soil lead concentration of 54.8 mg/kg. The analysis shows that lead-based paint may be contributing to the soil lead concentrations observed in the Assessment Areas.

5.2 RESULTS FOR CONSTITUENTS OTHER THAN LEAD AND ARSENIC

5.2.1 Inorganic Constituents

The results for antimony were below the detection limit for all samples. Most of the results for cadmium were below the detection limit, or the detected concentrations were below the Residential Soil Screening Value of 4 mg/kg with the exception of one sample in the Background Area which was slightly above the screening value oat 4.24 mg/kg.

Results for total chromium were all below the Residential Soil Screening Value of 120,000 mg/kg. However, the results were above 0.29 mg/kg, the Residential Soil Screening Value for hexavalent chromium. The Work Plan required that if total chromium concentrations were above 0.29 mg/kg, then additional testing be performed to determine the concentration of hexavalent chromium. However, since similar testing performed by ENVIRON in its Step-Out

Soil and Dust Sampling (ENVIRON, 2013b) did not have any detectable levels of hexavalent chromium with similar total chromium concentrations and to avoid unnecessary analytical costs, the 10 samples with the highest total chromium results from each area were tested. All results for hexavalent chromium were below the detection limit.

5.2.2 Organic Constituents

5.2.2.1 **PCBs**

Samples from collected the 0 to 1 inch and 1 to 3 inch depth intervals were analyzed for PCBs within the Background and Assessment Areas. For both the Background and Northern Assessment Areas, PCBs were all below the detection limit. For the Southern Assessment Area, there were results above the detection limit for individual Aroclors in two samples in the 0 to 1 inch interval and two samples in the 1 to 3 inch interval. No single sample had total detected PCBs above the Residential Soil Screening Value of 220 mg/kg. Sampling results are provided in Appendix C.

5.2.2.2 **PAHs**

Samples collected from the Background and Assessment Areas from the 0 to 1 inch and 1 to 3 inch depth intervals were analyzed for PAHs. Within the Background Area, there were concentrations above the Residential Soil Screening Values for several PAHs including:

- 0 to 1 inch interval: Benzo (b) Fluoranthene, Benzo (a) Pyrene and Dibenz (a,h) Anthracene
- 1 to 3 inch interval: Benzo (b) Fluoranthene, Benzo (a) Pyrene and Dibenz (a,h) Anthracene

Benzo (a) pyrene was detected at concentrations above the screening value in all but one sample at both the 0 to 1 inch and 1 to 3 inch depth intervals in the Background Area.

Only one sample in the Northern Assessment Area (SS-MEIR-N-18) had individual PAH compounds detected above their respective Residential Soil Screening Values other than benzo (a) pyrene. No PAH compound other than benzo (a) pyrene was detected above its screening value in the Southern Assessment Area. Benzo (a) pyrene was detected at a concentration above the screening level in 6 out of 19 samples in the 0 to 1 inch depth interval and 7 of 19 samples in the 1 to 3 inch depth interval in the Northern Assessment Area. In the Southern Assessment Area, benzo (a) pyrene was detected at a concentration above the screening level in 16 of 20 samples in the 0 to 1 inch depth interval and 13 of 20 samples in the 1 to 3 inch depth interval. The average concentration of benzo (a) pyrene where it was detected was similar to background in the Northern Assessment Area and less than background in the Southern Assessment Area. Sampling results are provided in Appendix C.

5.2.2.3 **Dioxin/Furan Testing**

Five samples from each of the Background and Northern and Southern Assessment Areas were analyzed for Dioxin/Furans, and the results are provided in Appendix C. Toxic Equivalents (as 2,3,7,7-TCDD) (TEQ) were calculated using the Kaplan Meier (KM) Technique in order to compare the results to the USEPA Residential Soil Screening Value of 4.5 KM TEQ (ng/kg) provided in Table 1.

The results are provided in Table 11 and presented graphically on Figure 8. When compared to the residential soil screening value, all but one of the sample results from all three areas exceeded the residential soil screening value. The concentrations in the Southern Assessment Area are the lowest with an average concentration of 5.4 ng/kg. The average in the Background Area was 8.5 ng/kg while the average in the Northern Assessment Area was 11 ng/kg. Overall, it appears that the detections of dioxin/furans above the residential soil screening values in residential soils is a background condition and unrelated to the facility. The detected concentrations are also below the DTSC remedial goal of 50 mg/kg (DTSC, 2011).

5.3 SCHOOL SAMPLING RESULTS

Two schools were sampled as part of the off-site sampling event. The Ruben F. Salazar Park north of the Exide Facility where the Volunteers of America Head Start School is located and the San Antonio Elementary School south of the Exide Facility were sampled consistent with the Work Plan.

Samples from the southern school showed results below the detection limit or less than the Residential Soil Screening Value for metals, PCBs and PAHs. The sample results for the northern school location within Salazar Park had a sample from the 1 to 3 inch depth interval above the Residential Soil Screening Value for lead at 95.4 mg/kg. The 0 to 1 inch and 3 to 6 inch depth interval sample lead results were below the Residential Soil Screening Value. Total PCB concentrations for both the 0 to 1 inch depth interval (310 microgram/kilogram [ug/kg]) and the 1 to 3 inch depth interval (524 ug/kg) were above the Residential Soil Screening Value of 220 ug/kg. The PAHs concentrations were either below the detection limit or below the respective screening values except for benzo(a)pyrene which was present in the 0 to 1 inch and 1 to 3 inch depth interval samples at concentrations similar to background. The metals, PCB and benzo(a)pyrene results for the two schools are provided in Table 12. Complete data tables are provided in Appendix C with validated result packages on disk.

6.0 CONCLUSIONS

Based upon review of the data developed during this off-site soil sampling program and experience with similar soil sampling programs in residential areas surrounding secondary lead smelters, Advanced GeoServices draws the following conclusions:

1. Lead was the only inorganic constituent tested that was above its DTSC Residential Soil Screening Value of 80 mg/kg in the Northern and Southern Assessment Areas. The concentrations of arsenic and other inorganic constituents were all below their Residential Soil Screening Value and were typically within the range observed in the Background Area soils.

2. The median lead concentration in soil in the Northern Assessment Area was higher than in the Southern Assessment Area, and both are higher than the Background Area that was tested. The median lead concentration in the Northern Area was 162 mg/kg versus 134 mg/kg in the Southern Area. In comparison, the median lead concentration in the Background Area was 54.8 mg/kg.

3. Since screening levels are not clean-up levels and do not indicate a hazardous condition in and of themselves, the results were also compared to the California Department of Public Health (CDPH) hazard level for bare soils where children play of 400 mg/kg [http://www.cdph.ca.gov/programs/CLPPB/Pages/LRCHomeLeadTest.aspx]. Lead concentrations in the surface (0 to 1 inch) soil interval were all below 400 mg/kg indicating that there is no need for immediate action based on the observed results. Most of the properties sampled had grass covering the soils, and few properties had clearly identified play areas in the yard. For soils such as these (i.e., all soils except bare areas where children play), the CDPH defined hazard level is 1000 mg/kg.

4. For the 1 to 3 inch soil interval which has less exposure potential than the 0 to 1 inch depth interval, only 1 lead result out of 19 samples from the Northern Assessment Area was slightly above the CDPH hazard level for lead in bare surface soils where children play of 400 mg/kg (at a concentration of 454 mg/kg). This level is well below the CDPH hazard level for lead in all other soil areas of 1,000 mg/kg. In the Southern Assessment Area, all soil lead results from the 1 to 3 inch depth interval were below 400 mg/kg.

5. Two samples from the deeper, 3 to 6 inch soil interval in the Northern Assessment Area had lead concentrations above the CDPH hazard level for soil at 582 mg/kg and 2030 mg/kg. The higher concentration was detected at the same property where the 1 to 3 inch soil interval also exceeded 400 mg/kg. At this property, the initial soil lead concentration reported by the laboratory for the 3 to 6 inch soil interval was 2030 mg/kg. Since this result was almost four times higher than the next highest sample result from that depth interval and more than four times higher than the 1 to 3 inch interval, the laboratory was instructed to analyze three additional aliquots of the soil sample. These results averaged 395 mg/kg, much more consistent with the rest of the data set. Therefore, based on the further laboratory analysis, we conclude that the initial reading of 2030 mg/kg is anomalous and is not representative of the conditions at the property. The average result from the reanalysis of 395 mg/kg was used for data evaluation. In the Southern Assessment Area, all soil lead results from the 3 to 6 inch depth interval were below 400 mg/kg.

6. The sampling program was not designed to establish sources of soil lead on the residential properties, and other sources of lead such as lead-based paint and leaded gasoline are common in urban residential soils such as the ones sampled here. The data indicate that lead concentrations in the 0 to 1 inch soil interval tend to be associated with the year of house construction. The houses in the Northern Assessment Area are the oldest with the median year of house construction of 1923, and the soil lead concentrations are highest in this area. The

median years of house construction in the Southern and Background Areas were 1937 and 1950, respectively. The median lead concentrations track the differences in house age with the Southern Area having higher concentrations than the background but lower than the Northern area which had the oldest housing. These observations indicate that one potential source for the higher lead concentrations in the Northern and Southern Assessment Areas may be the weathering of exterior lead based paint, which is more prevalent in pre-World War II housing stock. According to the USEPA, in their 1996 document "Distribution of Soil Lead in the Nation's Housing Stock", the strongest statistical predictor of soil lead was building age [http://www2.epa.gov/lead/executive-summary-epa-747-r-96-002]. The historic use of leaded gasoline is another potential source as the Northern Assessment Area is close to numerous major freeways and has more heavily trafficked secondary roads.

7. For the following reasons, sources other than facility emissions may be contributing to the observed soil lead concentrations:

- The data from the different depth intervals do not show a decrease with increasing depth. Overall, the median soil lead concentration in the 1 to 3 inch interval is higher than the 0 to 1 inch interval. Typically, at other sites where soils were impacted by airborne emissions, the concentrations decrease significantly with depth, which was not observed here.
- Lead did not concentrate significantly in the fine fraction passing the #60 sieve. This also is not typical of impacts from airborne emissions, which are comprised of very small particles.
- If the facility were the source of all concentrations, then one would expect decreasing concentrations with increasing distance from the facility. The sampling, however, does not indicate a discernable pattern. This may reflect that other factors, such as relative house age and the presence of lead-based paints, may be contributing to the observed value.

- Previous air modeling would indicate that the lead impacts, and thus the soil lead concentrations, in the Northern Area would be comparable to the Southern Area if the facility were the source. This is not what is observed in the data.

8. For the organic constituents, there were no exceedances of the soil screening levels for PCBs in the residential areas. Individual PAHs exceeded their soil screening value more frequently in the background area. The dioxin furan results typically exceeded the soil screening value in all three areas. The average concentrations of the dioxin/furans expressed as 2,3,7,8-TCDD for the Background, Northern and Southern Assessment Areas were 8.5, 11 and 5.4 ng/kg, respectively. The presence of organic constituents above the residential soil screening values should not be attributed to the facility if the lead and arsenic concentrations cannot be attributed to the facility.

9. All sample results from the southern school location were below the soil screening level for all depth intervals tested. The results for the northern school samples, located within Salazar Park, were below the soil screening level for lead in the 0 to 1 inch and 3 to 6 inch depth interval samples. The 1 to 3 inch depth interval sample result was slightly above the residential soil screening value of 80 mg/kg for lead at a concentration of 95.4 mg/kg. Northern school samples also exceeded the screening value for PCBs in the 0 to 1 inch and 1 to 3 inch depth intervals and for benzo (a) pyrene. Since the school is located further to the north than the Northern Assessment Area and PCBs detected were not detected in samples closer to the facility in the Northern Assessment Area, the presence of PCBs in the park sample should not be attributed to the facility. The presence of benzo (a) pyrene in the soils appears to be related to background conditions.

In summary, the sampling showed that the lead concentrations in both the Northern and Southern Assessment Areas exceeded the concentrations in the chosen background area and the DTSC Residential Soil Screening Level of 80 mg/kg. Since screening levels are not cleanup levels and do not, in and of themselves, indicate hazardous conditions, additional comparisons were made to published values. The surface lead concentrations did not exceed the CDPH hazard level for bare soils where children play of 400 mg/kg. No confirmed lead concentrations exceeded the CDPH hazard level for all other soils of 1000 mg/kg. Other inorganic constituents did not exceed background or their respective soil screening levels. In particular, the arsenic concentrations did not exceed background or its screening value in either the Northern or Southern Assessment Area. This difference between lead and arsenic impacts indicates that source(s) other than the facility are contributing to the soil lead concentrations. One possible source is lead-based paint based on the age of the housing stock in the areas sampled. Another possible source is the historical use of leaded gasoline.

Exide is presently performing step-out sampling that is designed to delineate lead soil concentrations and surface loadings in off-site areas. In addition, Exide is performing blood lead monitoring and will perform a risk assessment to assess the potential health risks from the observed soil concentrations for all parameters. Given the lack of clear relationship between the observed soil concentrations and the facility, we recommend that further residential soil sampling on a property by property basis be deferred until the step-out sampling and risk assessment calculations are completed.

REFERENCES

Advanced GeoServices Corp., 2013. Work Plan for Off-Site Soil Sampling. November 15.

DTSC, Office of Human and Ecological Risk (HERO), 2011. HERO HHRA Note 4, Jun 9.

ENVIRON International Corporation, 2013a. AB 2588 Health Risk Assessment. January.

ENVIRON International Corporation, 2013b. Step-out Dust and Soil Sampling Report. November 15.

TABLES

TABLE 1
Residential and Industrial Soil Screening Values
Off-Site Soil Sampling Report
Exide Vernon

Chemical[a]	CAS Number	Residential Soil (mg/kg)		Industrial Soil (mg/kg)		Analytical Method
Arsenic	7440-38-2	1.2E+01	LAUSD/DTSC	1.2E+01	LAUSD/DTSC	USEPA 6020
Lead	7439-92-1	8.0E+01	DTSC 2013	3.2E+02	DTSC 2013	USEPA 6020
Antimony	7440-36-0	3.1E+01	USEPA RSL 2013	4.1E+02	USEPA RSL 2013	USEPA 6020
Cadmium	7440-43-9	4.0E+00	DTSC 2013	5.1E+00	DTSC 2013	USEPA 6020
Chromium	7440-47-3	1.2E+05	USEPA RSL 2013	1.5E+06	USEPA RSL 2013	USEPA 6020
Total PCBs	1336-36-3	2.2E-01	USEPA RSL 2013	7.4E-01	USEPA RSL 2013	USEPA 8082
Dioxins/Furans (as 2,3,7,8-TCDD)	1746-01-6	4.5E-06	USEPA RSL 2013	1.8E-05	USEPA RSL 2013	USEPA 8290
Hexavalent Chromium	18540-29-9	2.9E-01	USEPA RSL 2013	5.6E+00	USEPA RSL 2013	USEPA 7199/3060A
Acenaphthene	83-32-9	3.4E+03	USEPA RSL 2013	3.3E+04	USEPA RSL 2013	USEPA 8270C
Acenaphthylene	208-96-8	--	--	--	--	USEPA 8270C
Anthracene	120-12-7	1.7E+04	USEPA RSL 2013	1.7E+05	USEPA RSL 2013	USEPA 8270C
Benzo(a)anthracene	56-55-3	1.5E-01	USEPA RSL 2013	2.1E+00	USEPA RSL 2013	USEPA 8270C
Benzo(a)pyrene	50-32-8	1.5E-02	USEPA RSL 2013	2.1E-01	USEPA RSL 2013	USEPA 8270C
Benzo(b)fluoranthene	205-99-2	1.5E-01	USEPA RSL 2013	2.1E+00	USEPA RSL 2013	USEPA 8270C
Benzo(ghi)perylene	191-24-2	--	--	--	--	USEPA 8270C
Benzo(k)fluoranthene	207-08-9	3.8E-01	DTSC 2013	1.3E+00	DTSC 2013	USEPA 8270C
Chrysene	218-01-9	3.8E+00	DTSC 2013	1.3E+01	DTSC 2013	USEPA 8270C
Dibenzo(a,h)anthracene	53-70-3	1.5E-02	USEPA RSL 2013	2.1E-01	USEPA RSL 2013	USEPA 8270C
Fluoranthene	206-44-0	2.3E+03	USEPA RSL 2013	2.2E+04	USEPA RSL 2013	USEPA 8270C
Fluorene	86-73-7	2.3E+03	USEPA RSL 2013	2.2E+04	USEPA RSL 2013	USEPA 8270C
Indeno(1,2,3-cd)pyrene	193-39-5	1.5E-01	USEPA RSL 2013	2.1E+00	USEPA RSL 2013	USEPA 8270C
Naphthalene	91-20-3	3.6E+00	USEPA RSL 2013	1.8E+01	USEPA RSL 2013	USEPA 8270C
Phenanthrene	85-01-8	--	--	--	--	USEPA 8270C
Pyrene	129-00-0	1.7E+03	USEPA RSL 2013	1.7E+04	USEPA RSL 2013	USEPA 8270C

Notes:
-- = Not available
mg/kg = milligram per kilogram
DTSC = Department of Toxic Substances Control
LAUSD = Los Angeles Unified School District
PAH = Polycyclic Aromatic Hydrocarbons
RSL = Regional Screening Level
TCDD = Tetrachlorodibenzodioxin
USEPA = United States Environmental Protection Agency

Sources:

Department of Toxic Substances Control (DTSC). 2013. Human Health Risk Assessment (HHRA) Note Number 3, Issue: DTSC recommended methodology for use of U.S. EPA Regional Screening Levels (RSLs) in the Human Health Risk Assessment process at hazardous waste sites and permitted facilities. May.

United States Environmental Protection Agency (USEPA). 2013. Regional Screening Levels (RSLs) Summary Table. May. Available at http:/www.epa.gov/region9/superfund/prg/index.html.

TABLE 2
Sample Results for 0-1 Inch Interval
Background Area
Off-Site Soil Sampling Report
Exide Vernon

	Year House Built	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)
Residential Soil Screening Value	**NA**	**80**	**12**	**31**	**4**	**120,000**
Sample ID						
SS-BG-01-1	1980	61.7	3.64	ND	1.39	20.3
SS-BG-02-1	1957	54.2	2.92	ND	ND	18.7
SS-BG-03-1	1954	58.1	2.35	ND	ND	21.1
SS-BG-04-1	1953	68.7	5.92	ND	ND	25.4
SS-BG-05-1	1949	**121**	3.51	ND	1.11	23.4
SS-BG-06-1	1929	54.8	4.25	ND	ND	21.5
SS-BG-07-1	1966	43.9	5.29	ND	ND	24.3
SS-BG-08-1	1938	**132**	7.48	ND	3.32	138
SS-BG-09-1	1940	**81.1**	4.22	ND	ND	19.5
SS-BG-10-1	1950	48.3	3.42	ND	ND	19.5
SS-BG-11-1	1945	**97.5**	8.68	ND	ND	19.3
SS-BG-12-1	1948	35.8	2.56	ND	ND	20.4
SS-BG-13-1	1950	34.8	2.82	ND	ND	15.3
SS-BG-14-1	1950	58.6	3.67	ND	ND	20.6
SS-BG-15-1	1968	43.5	2.87	ND	ND	15.4
SS-BG-16-1	1944	**88.2**	3.75	ND	ND	19
SS-BG-17-1	1947	51.1	2.37	ND	ND	15.5
SS-BG-18-1	1954	38	6.89	ND	ND	19.7
SS-BG-19-1	1947	29.4	3.83	ND	ND	19.5
Additional Analyses						
SS-BG-07-1 (Sieved)		46.5	5.04	ND	ND	24.4
SS-BG-08-1 (Sieved)		**136**	7.75	ND	3.14	142
SS-BG-09-1 (Sieved)		**83.6**	3.76	ND	ND	21.4
SS-BG-10-1 (Sieved)		53.4	3.18	ND	ND	30.3
SS-BG-20-1 (Dup of 08)		**138**	7.72	ND	3.5	146

Summary Statistics for Unsieved Sample Results

	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)
Max	132	8.68	ND	3.32	138
Min	29.4	2.35	ND	1.11	15.3
Avg	63.2	4.23	ND	1.94	26.1
Median	54.8	3.67	ND	1.39	19.7
95th UCL	76.6	5.1			

ND = Non-Detect
93 Designates above Residential Soil Screening Value

TABLE 3
Sample Results for 1-3 Inch Interval
Background Area
Off-Site Soil Sampling Report
Exide Vernon

	Year House Built	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)
Residential Soil Screening Value	**NA**	**80**	**12**	**31**	**4**	**120,000**
Sample ID						
SS-BG-01-3	1980	66.4	3.92	ND	1.41	25.6
SS-BG-02-3	1957	45.5	3.58	ND	ND	19
SS-BG-03-3	1954	**82.9**	3.41	ND	1.27	23.3
SS-BG-04-3	1953	64.9	6.53	ND	ND	24.5
SS-BG-05-3	1949	**83.3**	3.59	ND	ND	24
SS-BG-06-3	1929	55.8	5.43	ND	ND	25.5
SS-BG-07-3	1966	50.5	5.94	ND	ND	25
SS-BG-08-3	1938	**195**	11.5	ND	**4.24**	211
SS-BG-09-3	1940	45.6	4.29	ND	ND	21.2
SS-BG-10-3	1950	46.2	4.21	ND	ND	20.8
SS-BG-11-3	1945	**96**	9.4	ND	ND	20.1
SS-BG-12-3	1948	72	2.96	ND	ND	32.1
SS-BG-13-3	1950	41.6	2.85	ND	ND	14.6
SS-BG-14-3	1950	58.9	3.41	ND	ND	20
SS-BG-15-3	1968	54.2	3.18	ND	ND	17.2
SS-BG-16-3	1944	**82.9**	4.3	ND	ND	19.7
SS-BG-17-3	1947	54.9	3.18	ND	ND	17.8
SS-BG-18-3	1954	64.6	7.79	ND	ND	21.2
SS-BG-19-3	1947	31.5	4.43	ND	ND	19.9
Additional Analyses						
SS-BG-07-3 (Sieved)		55.4	5.32	ND	ND	24.4
SS-BG-08-3 (Sieved)		**166**	9.28	ND	3.54	173
SS-BG-09-3 (Sieved)		63.1	4.32	ND	ND	24
SS-BG-10-3 (Sieved)		51.7	3.76	ND	ND	21.9
SS-BG-20-3 (Dup of 08)		**164**	10.9	ND	3.5	221

Summary Statistics for Unsieved Sample Results

	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)
Max	195	11.5	ND	4.24	211
Min	31.5	2.85	ND	1.27	14.6
Avg	68.0	4.94	ND	2.31	31.7
Median	58.9	4.21	ND	1.41	21.2
95th UCL	82.3	5.88			

ND = Non-Detect

93 Designates above Residential Soil Screening Value

TABLE 4
Sample Results for 0-1 Inch Interval
Northern Assessment Area
Off-Site Soil Sampling Report
Exide Vernon

	Year House Built	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Hexavalent Chromium (mg/kg)
Residential Soil Screening Value	**NA**	**80**	**12**	**31**	**4**	**120,000**	**0.29**
Sample ID							
SS-MEIR-N-01-1	1930	**228**	2.88	ND	1.74	18.8	ND
SS-MEIR-N-02-1	1920	**81.8**	1.72	ND	ND	13.5	NS
SS-MEIR-N-03-1	1949	**144**	3.97	ND	1.44	24.1	ND
SS-MEIR-N-04-1	1916	**164**	2.55	ND	1.11	16.3	NS
SS-MEIR-N-05-1	1922	**156**	3.35	ND	1.98	29.5	ND
SS-MEIR-N-06-1	1923	**116**	2.68	ND	1.19	22.9	ND
SS-MEIR-N-07-1	1922	**202**	3.49	ND	1.09	14.9	NS
SS-MEIR-N-08-1	1921	**248**	3.22	ND	1.55	20.8	ND
SS-MEIR-N-09-1	1951	**163**	3.3	ND	1.66	21.9	ND
SS-MEIR-N-10-1	1922	**224**	1.91	ND	1.1	17	NS
SS-MEIR-N-11-1	1927	**162**	1.39	ND	1.06	13.1	NS
SS-MEIR-N-12-1	1927	**132**	1.87	ND	ND	15	NS
SS-MEIR-N-13-1	1939	**146**	2.32	ND	1.16	17.4	NS
SS-MEIR-N-14-1	1922	**342**	2.93	ND	1.91	19.5	ND
SS-MEIR-N-15-1	1991	62.5	3.13	ND	1.1	19.9	ND
SS-MEIR-N-16-1	1921	**323**	5.27	ND	2.42	24.3	ND
SS-MEIR-N-17-1	1954	**137**	3.27	ND	1.61	17.4	NS
SS-MEIR-N-18-1	1924	**114**	9.32	ND	ND	17.6	NS
SS-MEIR-N-19-1	1910	**179**	3.98	ND	1.56	21.5	ND
Additional Analyses							
SS-MEIR-N-04-1 (Sieved)		**338**	3.23	ND	1.55	20.1	NS
SS-MEIR-N-09-1 (Sieved)		**202**	3.46	ND	1.68	24.9	NS
SS-MEIR-N-11-1 (Sieved)		**149**	1.63	ND	1.12	18.6	NS
SS-MEIR-N-08-1 (Sieved)		**257**	3.12	2.25	1.43	26	NS
SS-MEIR-N-20-1 (Dup of 16)		**339**	5.85	ND	2.41	24.1	NS

Summary Statistics for Unsieved Sample Results

	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Hexavalent Chromium (mg/kg)
Max	342	9.32	ND	2.42	29.5	ND
Min	62.5	1.39	ND	1.06	13.1	ND
Avg	175	3.29	ND	1.48	19.2	ND
Median	162	3.13	ND	1.50	18.8	ND
95th UCL		4.03				

ND = Non-Detect
NS = Not Sampled
Designates above Residential Soil Screening Value

TABLE 5
Sample Results for 1-3 Inch Interval
Northern Assessment Area
Off-Site Soil Sampling Report
Exide Vernon

	Year House Built	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)
Residential Soil Screening Value	**NA**	**80**	**12**	**31**	**4**	**120,000**
Sample ID						
SS-MEIR-N-01-3	1930	**208**	3.23	ND	1.77	19.2
SS-MEIR-N-02-3	1920	**107**	2.14	ND	1.11	13.4
SS-MEIR-N-03-3	1949	**177**	4.82	ND	1.43	23.7
SS-MEIR-N-04-3	1916	**330**	3.06	ND	1.41	18.2
SS-MEIR-N-05-3	1922	**175**	3.78	ND	2.26	31.5
SS-MEIR-N-06-3	1923	**141**	2.96	ND	1.3	27.2
SS-MEIR-N-07-3	1922	**257**	3.96	ND	1.2	17.4
SS-MEIR-N-08-3	1921	**224**	3.13	ND	1.54	18.5
SS-MEIR-N-09-3	1951	**201**	3.5	ND	1.77	25.2
SS-MEIR-N-10-3	1922	**251**	2.41	ND	1.36	19.2
SS-MEIR-N-11-3	1927	**133**	2.34	ND	ND	16.8
SS-MEIR-N-12-3	1927	**129**	2.19	ND	ND	16.4
SS-MEIR-N-13-3	1939	**174**	2.19	ND	1.41	18.4
SS-MEIR-N-14-3	1922	**454**	3.37	ND	2.16	22.6
SS-MEIR-N-15-3	1991	70.6	3.55	ND	1.24	22.9
SS-MEIR-N-16-3	1921	**253**	6.79	ND	2.25	20.7
SS-MEIR-N-17-3	1954	**149**	3.31	ND	1.76	20.1
SS-MEIR-N-18-3	1924	**126**	8.39	ND	ND	15.6
SS-MEIR-N-19-3	1910	**184**	4.48	ND	1.69	25.5
Additional Analyses						
SS-MEIR-N-04-3 (Sieved)	1916	**243**	2.87	ND	1.56	20.4
SS-MEIR-N-08-3 (Sieved)	1921	**249**	3.1	ND	1.53	21.3
SS-MEIR-N-09-3 (Sieved)	1951	**240**	3.43	ND	1.99	28.1
SS-MEIR-N-11-3 (Sieved)	1927	**171**	2.45	ND	ND	20
SS-MEIR-N-20-3 (Dup of 16)	1921	**411**	6.79	ND	3.22	24.6

Summary Statistics for Unsieved Sample Results

	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)
Max	454	8.39	ND	2.26	31.5
Min	70.6	2.14	ND	1.11	13.4
Avg	197	3.66	ND	1.60	20.7
Median	177	3.31	ND	1.49	19.2
95th UCL	232	4.36			

ND = Non-Detect

93 Designates above Residential Soil Screening Value

TABLE 6
Sample Results for 0-1 Inch Interval
Southern Assessment Area
Off-Site Soil Sampling Report
Exide Vernon

	Year House Built	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Hexavalent Chromium (mg/kg)
Residential Soil Screening Value	**NA**	**80**	**12**	**31**	**4**	**120,000**	**0.29**
Sample ID							
SS-MEIR-S-01-1	1940	**122**	6.53	ND	1.25	18.7	ND
SS-MEIR-S-02-1	1926	39.7	1.67	ND	ND	15.1	NS
SS-MEIR-S-03-1	1979	**90.9**	1.61	ND	ND	16.1	NS
SS-MEIR-S-04-1	1979	**134**	1.51	ND	1.14	17.2	NS
SS-MEIR-S-05-1	1927	**164**	2.68	ND	1.31	19.9	ND
SS-MEIR-S-06-1	1928	**138**	3.18	ND	1.26	20.6	ND
SS-MEIR-S-07-1	1942	**144**	2.05	ND	1.09	16.2	NS
SS-MEIR-S-08-1	1923	**151**	1.92	ND	1.09	14.4	NS
SS-MEIR-S-09-1	1937	**134**	2.55	ND	ND	19.2	ND
SS-MEIR-S-10-1	1937	**174**	1.95	ND	1.5	16.8	NS
SS-MEIR-S-11-1	1924	**116**	1.79	ND	1.05	15.3	NS
SS-MEIR-S-12-1	1950	**140**	2.9	ND	1.35	19.7	ND
SS-MEIR-S-13-1	1923	**122**	2.22	ND	ND	12.8	NS
SS-MEIR-S-14-1	1929	**156**	1.79	ND	1.5	23.1	ND
SS-MEIR-S-15-1	1947	**133**	2	ND	1.25	22.3	ND
SS-MEIR-S-16-1	1940	**92.3**	2.01	ND	1.12	17.5	ND
SS-MEIR-S-17-1	1921	**169**	1.66	ND	1.43	20.6	ND
SS-MEIR-S-18-1	1947	**178**	1.83	ND	1.46	17.2	NS
SS-MEIR-S-19-1	1925	**110**	1.82	ND	1.35	18.4	ND
SS-MEIR-S-21-1	1956	**106**	1.57	ND	ND	14	NS
Additional Analyses							
SS-MEIR-S-02-1 (Sieved)	1926	44.7	1.81	ND	ND	16.5	NS
SS-MEIR-S-05-1 (Sieved)	1927	**169**	2.25	ND	1.26	19.6	NS
SS-MEIR-S-10-1 (Sieved)	1937	**189**	1.98	ND	1.62	20.1	NS
SS-MEIR-S-13-1 (Sieved)	1923	**130**	1.97	ND	ND	13.7	NS
SS-MEIR-S-20-1 (Dup of S-12	1950	**149**	3.15	ND	1.33	18.4	NS

Summary Statistics for Unsieved Sample Results

	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Hexavalent Chromium (mg/kg)
Max	178	6.53	ND	1.5	23.1	ND
Min	39.7	1.51	ND	1.05	12.8	ND
Avg	131	2.26	ND	1.28	17.8	ND
Median	134	1.94	ND	1.26	17.4	ND
95th UCL	144	2.69				

ND = Non-Detect
NS = Not Sampled
Designates above Residential Soil Screening Value

TABLE 7
Sample Results for 1-3 Inch Interval
Southern Assessment Area
Off-Site Soil Sampling Report
Exide Vernon

	Year House Built	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)
Residential Soil Screening Value	**NA**	**80**	**12**	**31**	**4**	**120,000**
Sample ID						
SS-MEIR-S-01-3	1940	**95.6**	7.53	ND	1.24	20
SS-MEIR-S-02-3	1926	50.2	1.86	ND	ND	16
SS-MEIR-S-03-3	1979	**145**	1.74	ND	1.18	16.2
SS-MEIR-S-04-3	1979	**119**	1.77	ND	ND	17.5
SS-MEIR-S-05-3	1927	**188**	2.66	ND	1.44	17.5
SS-MEIR-S-06-3	1928	**117**	2.89	ND	1.31	20.5
SS-MEIR-S-07-3	1942	**128**	2.11	ND	1.05	16.4
SS-MEIR-S-08-3	1923	**239**	2.76	ND	1.56	26.8
SS-MEIR-S-09-3	1937	**158**	3.09	ND	1	18.7
SS-MEIR-S-10-3	1937	**169**	1.87	ND	1.64	20
SS-MEIR-S-11-3	1924	**132**	2.24	ND	1.14	17.3
SS-MEIR-S-12-3	1950	**153**	2.48	ND	1.51	23.1
SS-MEIR-S-13-3	1923	**158**	2.45	ND	1.21	14.9
SS-MEIR-S-14-3	1929	**217**	2.23	ND	2.02	23.9
SS-MEIR-S-15-3	1947	**185**	2.2	ND	1.41	19.9
SS-MEIR-S-16-3	1940	**86**	2.63	ND	1.11	19.2
SS-MEIR-S-17-3	1921	**355**	2.3	ND	2.04	25.9
SS-MEIR-S-18-3	1947	**250**	1.71	ND	1.63	19
SS-MEIR-S-19-3	1925	**153**	2.36	ND	1.84	22.4
SS-MEIR-S-21-3	1956	**123**	1.53	ND	1.03	14
Additional Analyses						
SS-MEIR-S-02-3 (Sieved)	1940	50	1.94	ND	ND	17
SS-MEIR-S-05-3 (Sieved)	1927	**167**	2.06	ND	1.28	19.6
SS-MEIR-S-10-3 (Sieved)	1937	**189**	1.92	ND	1.79	20.7
SS-MEIR-S-13-3 (Sieved)	1923	**202**	2.44	ND	1.25	20.8
SS-MEIR-S-20-3 (Dup of S-12)	1950	**177**	6.55	ND	1.54	24.1

Summary Statistics for Unsieved Sample Results

	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)
Max	355	7.53	ND	2.04	26.8
Min	50.2	1.53	ND	1	14
Avg	161	2.52	ND	1.41	19.5
Median	153	2.27	ND	1.36	19.1
95th UCL	187	3.01			

ND = Non-Detect
Designates above Residential Soil Screening Value

TABLE 8
Sample Results for 3-6 Inch Interval
Northern Assessment, Southern Assessment and Background Areas
Off-Site Soil Sampling Report
Exide Vernon

Background Area				Northern Assessment Area				Southern Assessment Area		
Sample ID	Year House Built	Lead Result (mg/kg)		Sample ID	Year House Built	Lead Result (mg/kg)		Sample ID	Year House Built	Lead Result (mg/kg)
SS-BG-01-6	1980	28.8		SS-MEIR-N-01-6	1930	**202**		SS-MEIR-S-01-6	1940	**199**
SS-BG-02-6	1957	44.8		SS-MEIR-N-02-6	1920	**143**		SS-MEIR-S-02-6	1926	**96.1**
SS-BG-03-6	1954	**96.4**		SS-MEIR-N-03-6	1949	**147**		SS-MEIR-S-03-6	1979	**74.7**
SS-BG-04-6	1953	66.5		SS-MEIR-N-04-6	1916	**340**		SS-MEIR-S-04-6	1979	**115**
SS-BG-05-6	1949	72		SS-MEIR-N-05-6	1922	**215**		SS-MEIR-S-05-6	1927	**135**
SS-BG-06-6	1929	64.1		SS-MEIR-N-06-6	1923	**178**		SS-MEIR-S-06-6	1928	**104**
SS-BG-07-6	1966	55.3		SS-MEIR-N-07-6	1922	**105**		SS-MEIR-S-07-6	1942	**126**
SS-BG-08-6	1938	70.8		SS-MEIR-N-08-6	1921	**299**		SS-MEIR-S-08-6	1923	**175**
SS-BG-09-6	1940	62.8		SS-MEIR-N-09-6	1951	**206**		SS-MEIR-S-09-6	1937	**180**
SS-BG-10-6	1950	36.1		SS-MEIR-N-10-6	1922	**277**		SS-MEIR-S-10-6	1937	**205**
SS-BG-11-6	1945	**106**		SS-MEIR-N-11-6	1927	**132**		SS-MEIR-S-11-6	1924	**136**
SS-BG-12-6	1948	43.1		SS-MEIR-N-12-6	1927	**172**		SS-MEIR-S-12-6	1950	**154**
SS-BG-13-6	1950	38.1		SS-MEIR-N-13-6	1939	**117**		SS-MEIR-S-13-6	1923	**150**
SS-BG-14-6	1950	53.1		SS-MEIR-N-14-6*	1922	**395**		SS-MEIR-S-14-6	1929	**180**
SS-BG-15-6	1968	36.8		SS-MEIR-N-15-6	1991	**109**		SS-MEIR-S-15-6	1947	**113**
SS-BG-16-6	1944	**114**		SS-MEIR-N-16-6	1921	**582**		SS-MEIR-S-16-6	1940	**110**
SS-BG-17-6	1947	58.9		SS-MEIR-N-17-6	1954	**126**		SS-MEIR-S-17-6	1921	**305**
SS-BG-18-6	1954	37.4		SS-MEIR-N-18-6	1924	**289**		SS-MEIR-S-18-6	1947	**280**
SS-BG-19-6	1947	40.1		SS-MEIR-N-19-6	1910	**191**		SS-MEIR-S-19-6	1925	**97.8**
								SS-MEIR-S-21-6	1956	**112**

Min	28.8		Min	105	Min	74.7
Max	114		Max	582	Max	305
Average	59.2		Average	222	Average	152
Median	55.3		Median	191	Median	136
95th UCL	69.7		95th UCL	272	95th UCL	177

93 Designates above Residential Soil Screening Value

* Lead Result presented an average of the results for 3 additional aliquots (419, 385, 381 mg/kg).
Statistical Data for the Northern Assessment Area calculated using the averaged result. Initial result was 2030 mg/kg.

TABLE 9
Summary Statistics for Lead
Off-Site Soil Sampling Report
Exide Vernon

	Lead (mg/kg)					
Interval	**0-1 Inches**		**1-3 Inches**		**3-6 Inches**	
Assessment Area	**Median**	**95th UCL**	**Median**	**95th UCL**	**Median**	**95th UCL**
Background	54.8	76.6	58.9	82.3	55.3	69.7
Northern	162	204	177	232	191	272
Southern	134	144	153	187	136	177

TABLE 10
Sieved and Unsieved Samples Soil Lead Results
Off-Site Soil Sampling Report
Exide Vernon

Sample ID	Sieved (mg/kg)	Unsieved (mg/kg)
SS-BG-07-1	46.5	43.9
SS-BG-08-1	136	132
SS-BG-09-1	83.6	81.1
SS-BG-10-1	53.4	48.3
SS-BG-07-3	55.4	50.5
SS-BG-08-3	166	195
SS-BG-09-3	63.1	45.6
SS-BG-10-3	51.7	46.2
SS-MEIR-N-04-1	338	164
SS-MEIR-N-08-1	257	248
SS-MEIR-N-09-1	202	163
SS-MEIR-N-11-1	149	162
SS-MEIR-N-04-3	243	330
SS-MEIR-N-08-3	249	224
SS-MEIR-N-09-3	240	201
SS-MEIR-N-11-3	171	133
SS-MEIR-S-02-1	44.7	39.7
SS-MEIR-S-05-1	169	164
SS-MEIR-S-10-1	189	174
SS-MEIR-S-13-1	130	122
SS-MEIR-S-02-3	50	50.2
SS-MEIR-S-05-3	167	188
SS-MEIR-S-10-3	189	169
SS-MEIR-S-13-3	202	158
Average Concentration	152	139
Median Concentration	167	160

TABLE 11
0-1 Inch Interval
Dioxins/Furans Results
Off-Site Soil Sampling Report
Exide Vernon

Sample ID	**KM TEQ (ng/kg)**
Residential Soil Screening Values	4.5
Sample ID	
SS-MEIR-N-01-1	**12**
SS-MEIR-N-03-1	**8.5**
SS-MEIR-N-06-1	**11**
SS-MEIR-N-09-1	**14**
SS-MEIR-N-13-1	**6.3**
SS-MEIR-S-01-1	**5.5**
SS-MEIR-S-03-1	**5.7**
SS-MEIR-S-06-1	2.8
SS-MEIR-S-09-1	**6.0**
SS-MEIR-S-12-1	**6.9**
SS-BG-01-1	**9.2**
SS-BG-02-1	**6.6**
SS-BG-03-1	**5.8**
SS-BG-04-1	**9.6**
SS-BG-05-1	**11**

Notes:

1. KM TEQ calculated using the Kaplan Meier Technique (USEPA 2006).
2. Toxic Equivalency Factors (TEFs) for dioxins/furans obtained from World Health Organization (2005).
3. Mean derived by using KMStats Version 1.4 in EXCEL spreadsheet.

Designates above Residential Soil Screening Value

TABLE 12
Schools Sampling Results
Off-Site Soil Sampling Report
Exide Vernon

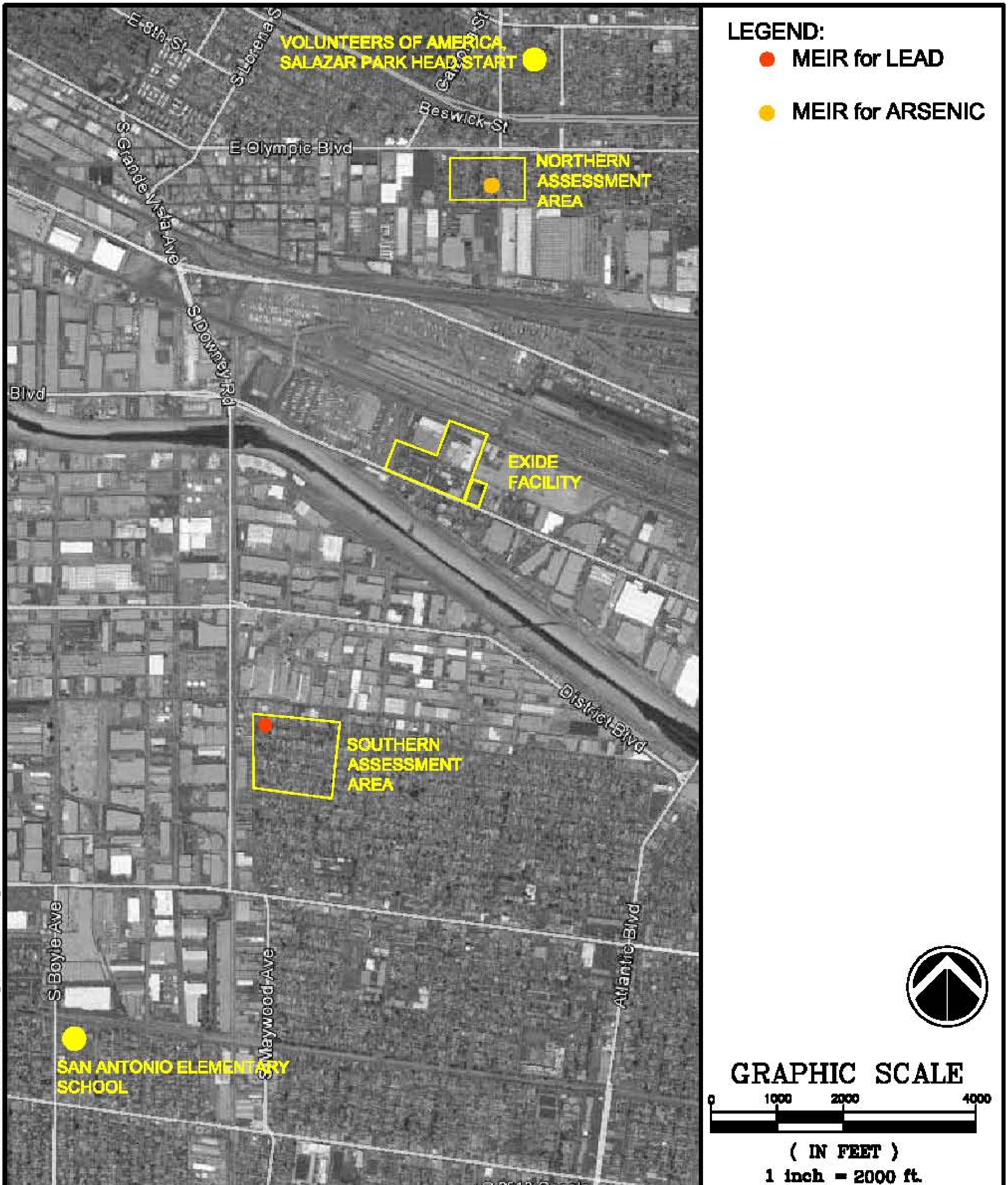
Metals (mg/kg)

	Lead (mg/kg)	Arsenic (mg/kg)	Antimony (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Total PCBs (ug/kg)	Benzo (a) Pyrene (mg/kg)
Residential Soil Screening Value	**80**	**12**	**31**	**4**	**120,000**	**220**	**0.015**
Sample ID							
SS-SCHOOL-N-01-1	70	2.56	ND	1.84	31.2	**310**	**0.048**
SS-SCHOOL-N-01-3	**95.4**	3.09	ND	2.97	43.1	**524**	**0.046**
SS-SCHOOL-N-01-6	52.1	2.43	ND	ND	11.8	ND	ND
SS-SCHOOL-S-01-1	40.8	2.77	ND	ND	15.6	ND	ND
SS-SCHOOL-S-01-3	33.2	3.31	ND	ND	19.1	ND	ND

ND = Non-Detect
Designates above the Residential Soil Screening Value

Notes:
1. Total PCBs presented are the sum of the detected Aroclors
2. Only PAHs above the screening level are shown in this table. See Appendix C for the complete results

FIGURES



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NORTHERN AND SOUTHERN ASSESSMENT AREAS AND SCHOOLS LOCATION PLAN
OFF-SITE SOIL SAMPLING REPORT

PROJECT ENGINEER:	BLF	SCALE:	1" ~ 2000'
CHECKED BY:	KO	PROJECT NUMBER:	2013-3007
DRAWN BY:	KEZ	DATE: 2/10/14	FIGURE: 1

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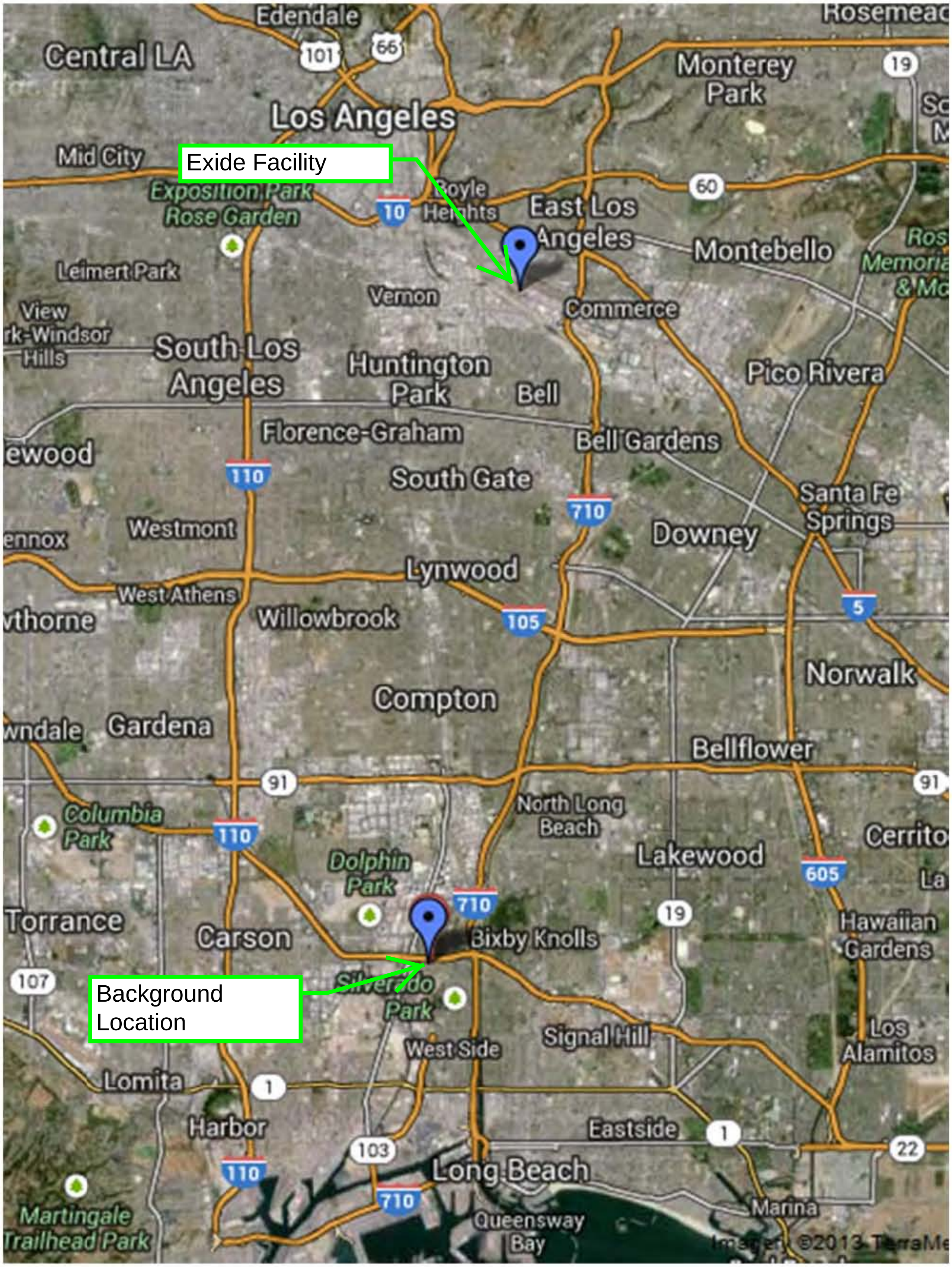


Figure 2: Location of Background Area Relative to Exide

FIGURE 3
Soil Lead Data
Off-Site Soil Sampling Report
Exide Vernon

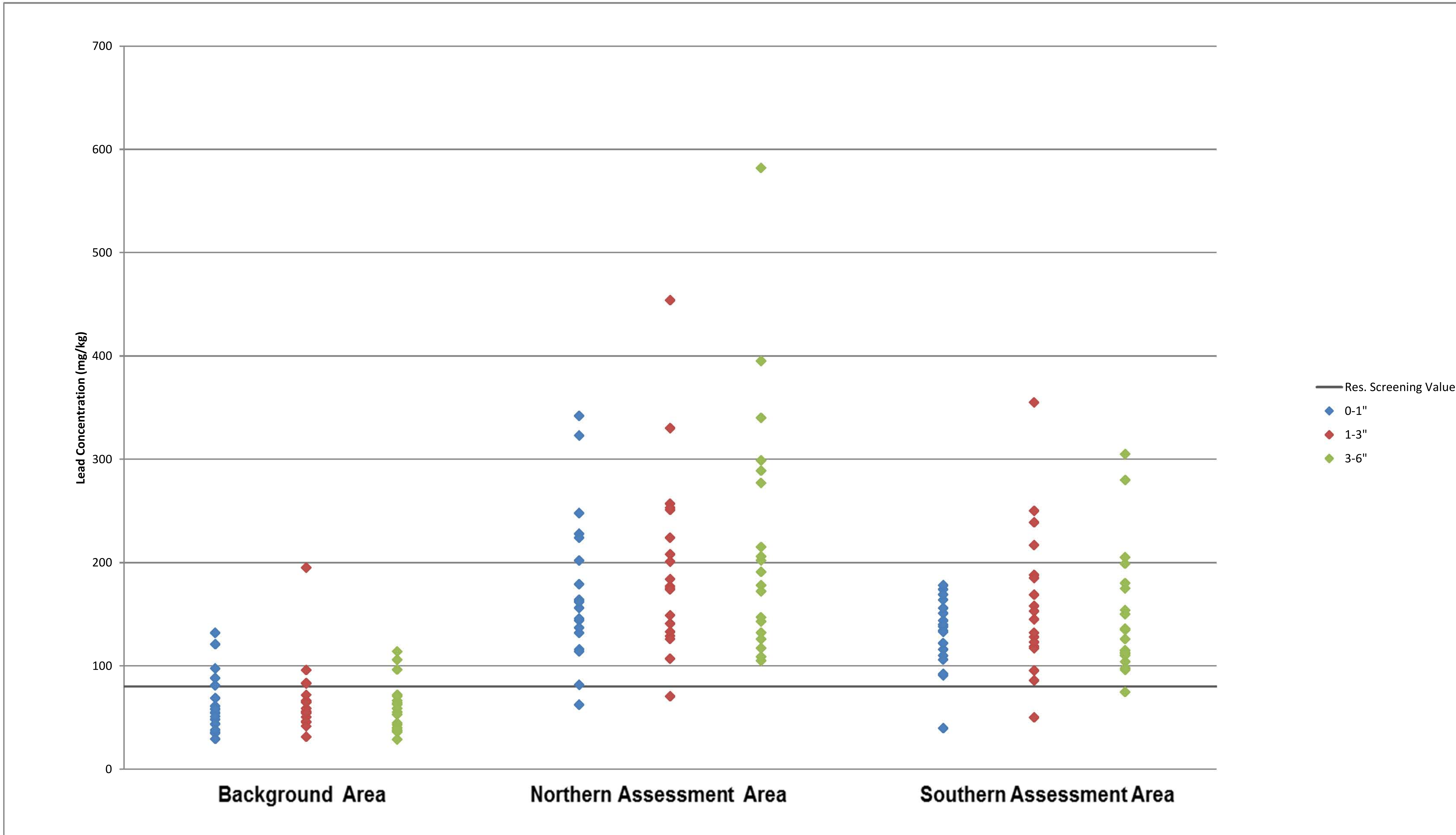
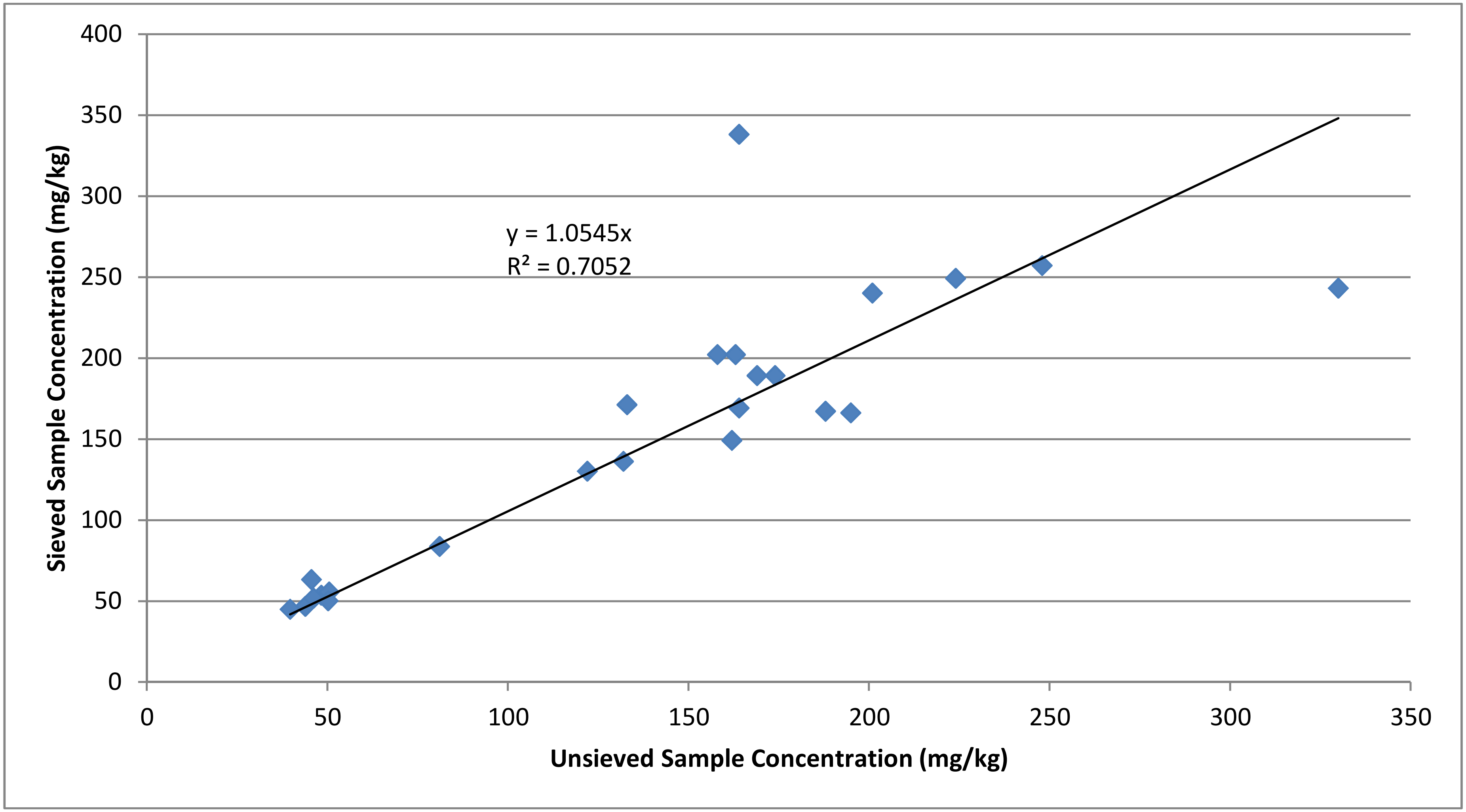


Figure 4
Sieved vs Unsieved Sample Lead Concentrations
Off-Site Soil Sampling Report



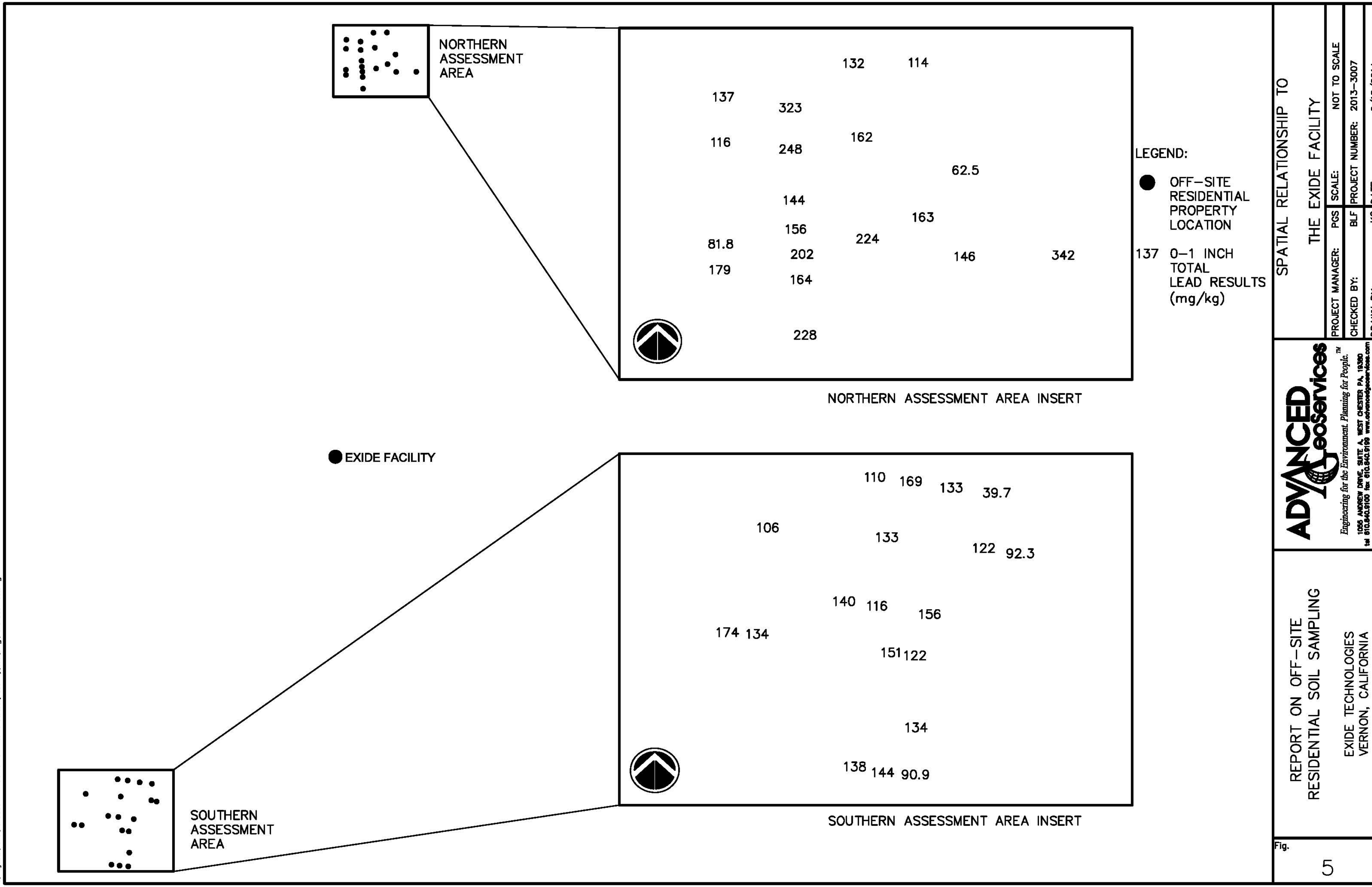


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FIGURE 6
Relationship between Surface Soil Lead and Distance from Facility
Off-Site Soil Sampling Report
Exide Vernon

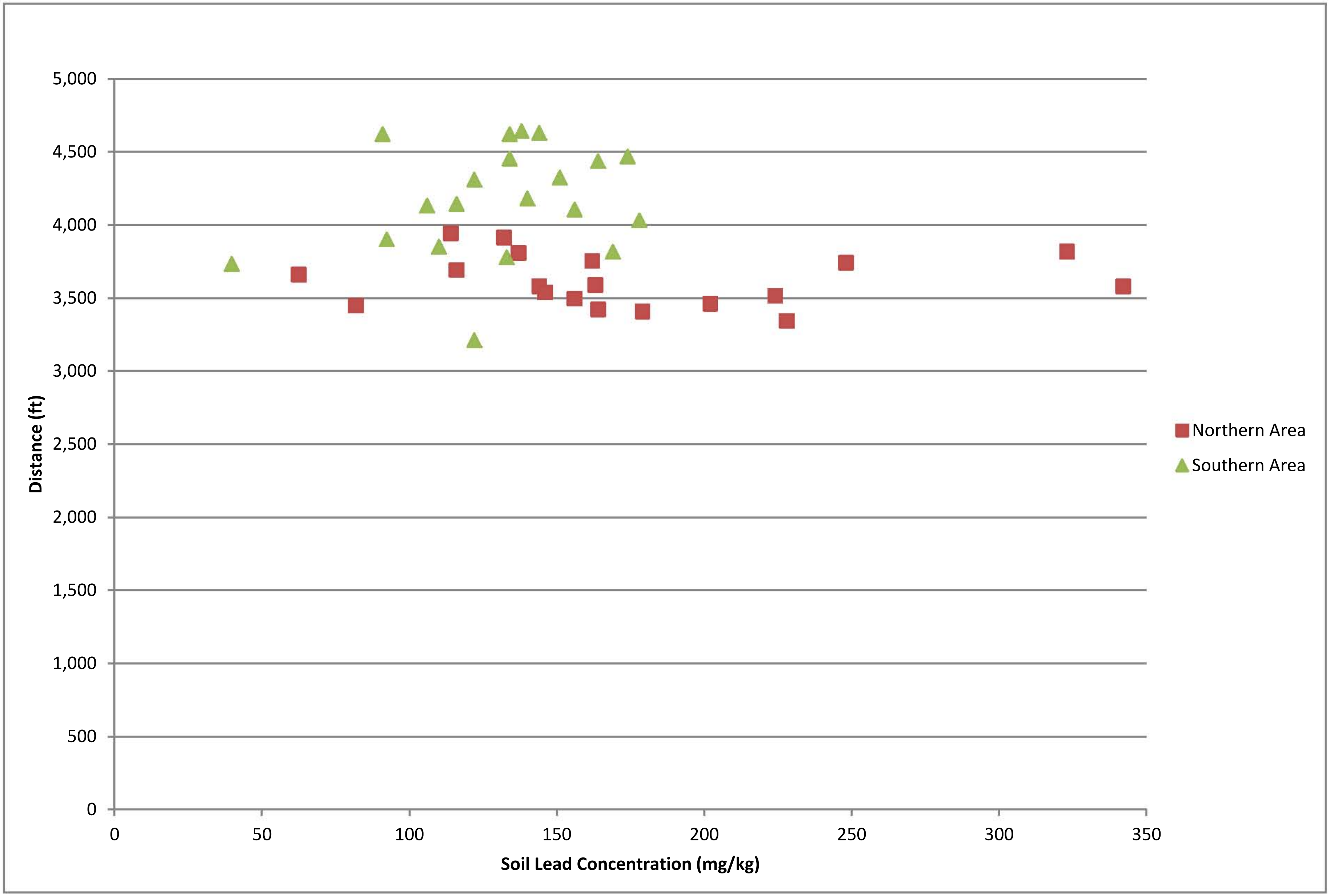

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FIGURE 7
Surface Soil Lead vs House Age
Off-Site Soil Sampling Report
Exide Vernon

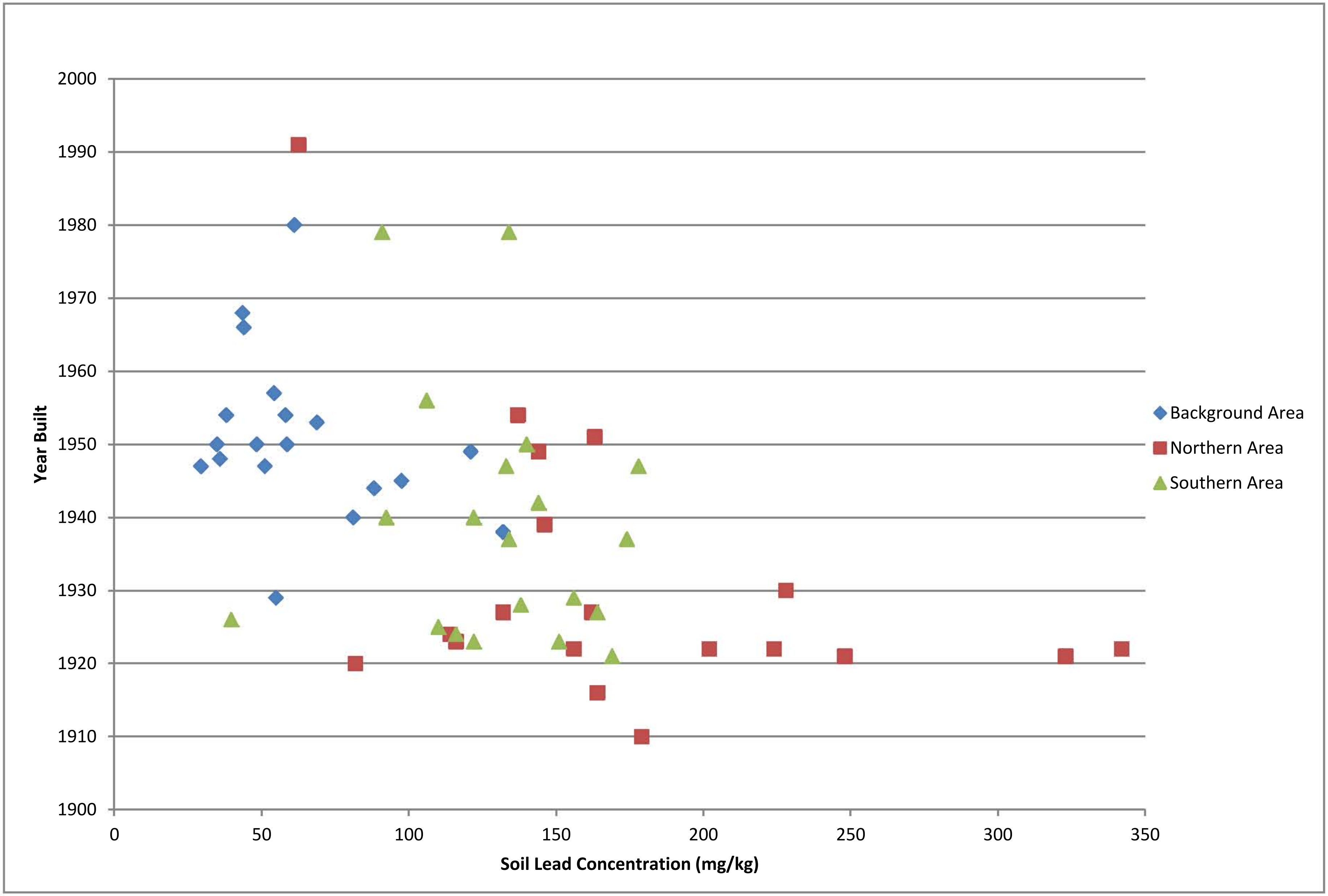

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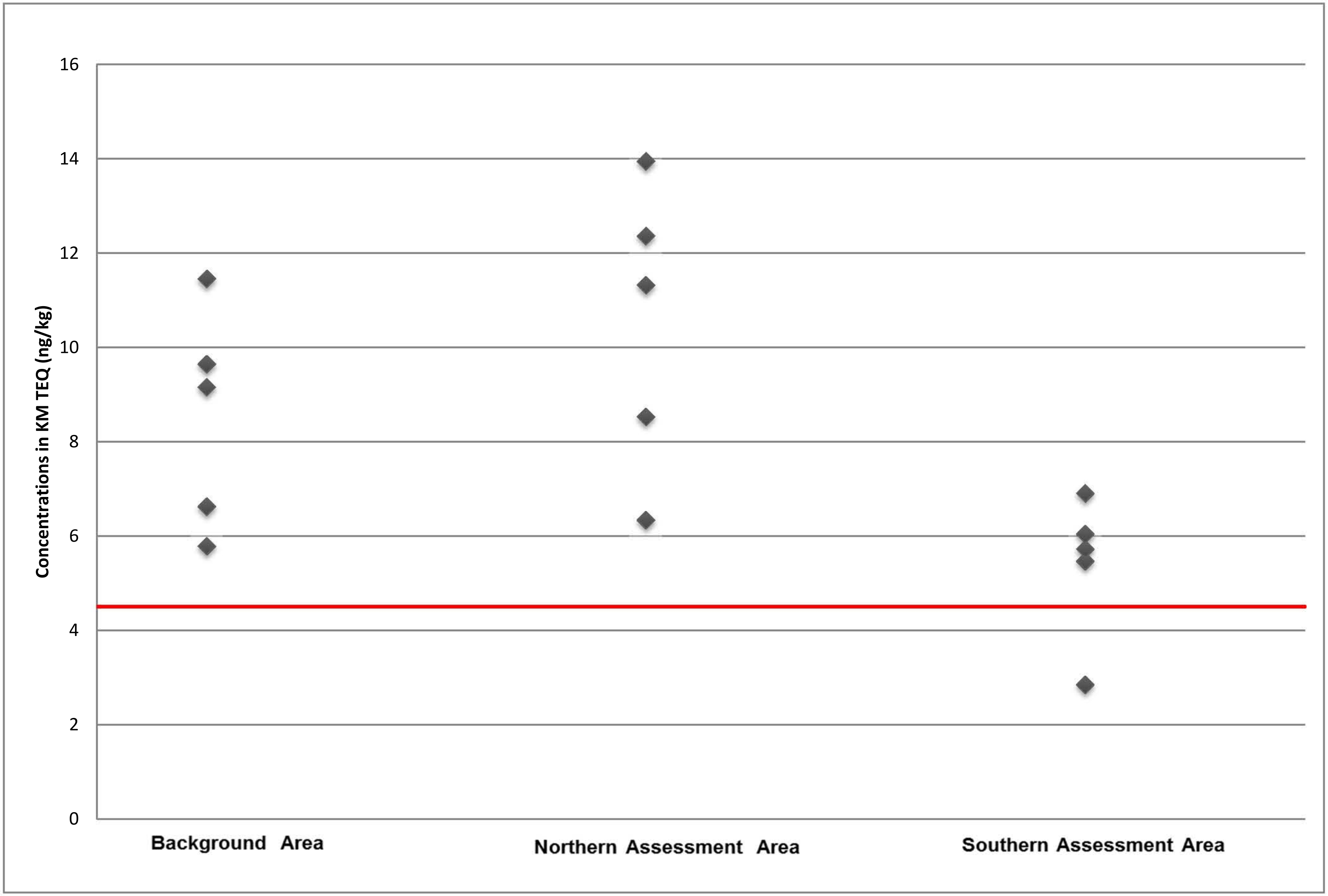
FIGURE 8
Dioxans/Furans/ Comparison
Off-Site Soil Sampling Report
Exide Vernon



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APPENDIX A

Access Agreements

Dear Resident:

On behalf of Exide Technologies (Exide), Advanced GeoServices and ENVIRON are performing soil sampling in your area as requested by the California Department of Toxic Substances Control (DTSC). Information on the work being performed by Exide at the direction of DTSC can be found on the attached Fact Sheet along with contact names and phone numbers should you like further information.

We request your permission to be in your yard for a few hours to take soil samples. All costs will be paid by Exide.

To take the sample, we will cut away a small circle of grass (if grass is present) and take a 6" deep sample of the soil underneath. We will then fill the hole with new soil and replace the grass as needed.

Please sign below to give your permission for us to perform the sampling. We will contact you the day before we come to let you know when we will be there.

Thank you for your cooperation.

Barbara L. Forslund
Advanced GeoServices
Phone: 610-840-9145
Email: bforslund@advancedgeoservices.com

I grant permission for Exide and its contractors to sample soils on my property.

____ ____________
Signature Date

____
Printed Name

____
Address

__________________ ____________________
Contact Telephone Number Best time to call

Please indicate whether you are the _____ property owner or _____ tenant.

COMMUNITY Notice

The mission of DTSC is to protect California's people and environment from harmful effects of toxic substances through the restoration of contaminated resources, enforcement, regulation and pollution prevention.

EXIDE BATTERY RECYCLING FACILITY FREQUENTLY ASKED QUESTIONS (FAQs)

Community members have contacted the Department of Toxic Substances Control (DTSC) over the past few weeks with questions about our enforcement activities at the Exide Technologies facility in Vernon. Earlier this month, DTSC entered into an agreement with Exide to ensure that the company's battery recycling facility in Vernon operates safely and in a manner that protects the health of the community.

The recent agreement, called a "Stipulation and Order" (S&O), goes much further and requires more of Exide than an earlier order DTSC issued in April 2013 that temporarily suspended operations at the Exide facility. The S&O agreement provides better public health protections, but it has also prompted some members of the public to ask questions about how it impacts them and the wider community.

In order to clarify the community's questions, DTSC has compiled a list of frequently asked questions (FAQs) with answers that we are including in the attached pages and posted on our Exide project document website located at:

http://www.dtsc.ca.gov/HazardousWaste/Projects/exide_faq.cfm

We will regularly update the list of FAQs as new information comes available.

For those of you who don't already know, the Exide battery recycling facility is located at 2700 South Indiana Street, Vernon, California. The Facility operates a metal (lead) treatment and storage/recycling facility at the City of Vernon location for the recovery of lead from automotive batteries and other lead-bearing materials received from off-site sources.

For email updates, please subscribe to the Exide Elist at the following location:
http://www.dtsc.ca.gov/HazardousWaste/Projects/ExideSiteDescription.cfm

The lists of FAQs are located on the following two pages:

DTSC CONTACTS

For questions on the technical and legal aspects of the FAQs, please contact the following DTSC staff members:

Edward Nieto
Team Leader
8800 Cal Center Drive
Sacramento, CA 95826
(916) 255-3578
Edward.Nieto@dtsc.ca.gov

Bill Veile, Project Manager
(916) 255-3605
Bill.Veile@dtsc.ca.gov

For all other questions, please contact:

Tim Chauvel
Public Participation Specialist
5796 Corporate Avenue
Cypress, CA 90630
1-866-495-5651 or (714) 484-5487
Tim.Chauvel.@dtsc.ca.gov

For media inquiries, contact:

Russ Edmondson
Public Information Officer
(916) 323-3372
Russ.Edmondson@dtsc.ca.gov

Cal/EPA DTSC State of California

NOTICE TO HEARING IMPAIRED INDIVIDUALS: TYY users may use the California Relay Service at 711. Please see contact names above.

DTSC FAQs FOR EXIDE/10.24.13

Question (Q): What is the status of the suspension order issued in April 2013?

Answer (A): DTSC issued an administrative suspension order because it was concerned about the releases of hazardous waste and air emissions into the environment. However, a Los Angeles Superior Court judge overruled DTSC in June 2013 and ordered the facility reopened until an administrative hearing could be completed. When the completed administrative hearing was postponed, the same judge ordered Exide to court on Oct. 22, 2013, to explain why he should not lift his ruling that kept the facility open. The outcome of the suspension order is presently ongoing and an update will be given at a later date.

Q: What is the Stipulation and Order between Exide and DTSC, and what does that mean for me?

A: The Stipulation and Order resolves the administrative suspension order that DTSC issued against Exide in April 2013 and resolves a legal action that Exide filed against DTSC in June 2013. The Stipulation and Order sets out conditions that Exide must meet and timelines for completing them. It requires Exide to set aside $7.7 million in a special fund for upgrading the storm water system, reducing arsenic emissions in the air, blood lead testing in the community and sampling dust and soil around the facility. It sets a sliding scale of fines up to $10,000 per day if the conditions are not met. It means that Exide is being closely monitored, and the facility will be made safe or DTSC will shut it down again should the facility pose an imminent and substantial danger to public health and the environment. The Stipulation and Order addresses concerns additional to those posed in the earlier suspension order. The Stipulation and Order is separate from Exide's application for a permit, which will be decided on its own merits.

Q: What are the conditions in the Stipulation and Order?

A: Exide must complete the following by specific deadlines or face potential fines:

- Replacing a deteriorating and leaking underground pipe system
- Installation of air pollution control devices to reduce arsenic emissions
- Blood-lead level testing for nearby residents
- Dust and soil sampling around the facility.

Q: **Are there provisions in the new Stipulation and Order that weren't included in the suspension order that temporarily closed the Vernon plant in April?**

A: Yes, the original order did not require blood testing or the soil sampling. The data from those additional measures will help DTSC determine Exide's impact on the community, and help shape actions in the future. Those additional measures will provide important information to the community.

Q: **How will Exide spend the $7.7 million**?

A: Under the Stipulation and Order, Exide is replacing a storm water system with a more advanced double-wall system at a cost of more than $4 million by year end. About $2.5 million will be devoted to reducing air emissions through the installation of more high-efficiency filters and furnace modifications. Additional funds also will pay for the voluntary blood testing of residents of Vernon and other nearby neighborhoods, and the soil and dust sampling outside the facility.

Q: **How will blood-lead level testing and soil and dust sampling benefit the community?**

A: The tests will provide more information regarding potential health and environmental impacts from the Exide facility. Higher lead levels in blood could be an indicator of a health risk. Those findings, combined with data from soil and dust sampling, will help determine if the facility is a source of contamination. That information will be helpful to DTSC in determining future steps.

DTSC FAQs FOR EXIDE/10.24.13 CONTINUED

Q: **Since Exide filed for bankruptcy protection, what assurances are there that the company will pay for the work**?

A: DTSC has ordered Exide to set aside $7.7 million in a special account to make the required repairs and to conduct the blood, soil and dust sampling. Exide must obtain approval from the bankruptcy court to spend those funds. The bankruptcy court set a date of Nov. 5 to hear that matter. Assuming the bankruptcy court approves the expenditure, as long as the facility is operating, Exide must spend the $7.7 million on facility upgrades specified in the Stipulation and Order.

Q: **How else is the community and environment protected while the repairs/upgrades are being completed?**

A: The Stipulation and Order does not prevent DTSC, South Coast Air Quality Management District or other agencies from exercising their authorities and taking additional measures.

Q: **Can DTSC require Exide to spend more than $7.7 million?**

A: Yes, DTSC has enforcement tools available that can be utilized to require additional funds, including for purposes of conducting corrective action and closure of the facility.

Q**: Why doesn't the Stipulation and Order include financial compensation for community members who suffered health impacts as a result of Exide's operations?**

A: DTSC has no authority to require compensation for people who claim they were harmed by the facility's operations.

Q: **What else is DTSC doing in relation to Exide's Vernon facility**?

A: Exide operates under an interim status authorization, and DTSC is reviewing the company's application for a permit. As part of that review, DTSC could impose additional requirements that would force Exide to spend more money on upgrading the facility. In addition, Exide was required to set aside $10.9 million in a special fund to pay for any costs associated with closing the facility should that happen.

Q: What is the impact of Exide's bankruptcy case on DTSC's enforcement action, and what does it mean to the community?

A: DTSC is a creditor. The bankruptcy case is a federal legal proceeding initiated by Exide. The bankruptcy court set the Oct. 31 deadline, but Exide is seeking to extend the date to January 31, 2104 for Exide creditors to submit proofs of claim, and in September approved Exide's motion to spend $16 million on bonuses to Exide executives. As previously noted, the bankruptcy court must also approve the expenditure of funds set forth in the Stipulation and Order.

If you have questions for Exide Technologies regarding the soil sampling, please contact Ed Mopas at (323) 262-1101, ext. 259.

NOTICE TO HEARING IMPAIRED INDIVIDUALS: TYY users may use the California Relay Service at 711. Please see contact names above.

Estimado residente:

En nombre de Exide Technologies (Exide), Advanced GeoServices y ENVIRON están colectando muestras de suelo en su comunidad bajo la dirección del Departamento de Control de Sustancias Tóxicas (DTSC). En la ficha de Preguntas Frecuentes (FAQs) (adjuntado) usted podrá encontrar la información acerca del trabajo realizado por Exide bajo la dirección de DTSC. La ficha de Preguntas Frecuentes también contiene los nombres y números de contacto en caso usted los necesite.

Le pedimos permiso para ingresar a su patio por unas horas para tomar muestras de suelo. Todo gasto será pagado por Exide.

Durante el muestreo de suelo, cortamos un círculo pequeño del césped (si hay césped) y tomamos una muestra aproximadamente de seis pulgadas por debajo del nivel del césped. Después, rellenamos el orificio con un suelo nuevo y lo cubrimos con césped.

Por favor firme abajo, dando su permiso a que realicemos el trabajo de muestreo. Lo contactaremos un día antes de ir a su localidad.

Gracias para su cooperación.

Barbara L. Forslund
Advanced GeoServices
(610) 840-9145
bforslund@advancedgeoservices.com

Yo les doy permiso a Exide y sus contratistas para que toman una muestra de suelo en mi propiedad.

____ ___________
Firma | Fecha

____
Nombre

____
Dirección

____________________ _______________________
Número de Contacto | Hora ideal para recibir una llamada

Favor de indicar si Ud. es: _____ dueño o _____ arrendatario.

Aviso a la COMUNIDAD

La misión del DTSC es proteger a la gente y al medio ambiente de California de los efectos dañinos de sustancias tóxicas a través de la restauración de recursos contaminados, aplicación, regulación y prevención de la contaminación.

PREGUNTAS FRECUENTES (FAQs, por sus siglas en inglés) ACERCA DE LAS INSTALACIONES EXIDE DE RECICLAJE DE BATERÍAS

Durante las últimas semanas, miembros de la comunidad han contactado con el Departamento para Control de Sustancias Tóxicas (DTSC, por sus siglas en inglés) con preguntas acerca de nuestras actividades de aplicación en las instalaciones Exide Technologies en Vernon. A principios de este mes, el DTSC llegó a un acuerdo con Exide para asegurar que las instalaciones de reciclaje de baterías de la compañía, en Vernon, operan de manera segura y de modo que protegen la salud de la comunidad.

El reciente acuerdo llamado "Estipulación y Orden" (S&O), por sus siglas en inglés), va mucho más allá y requiere más de Exide que la orden previa del DTSC emitida en abril del 2013 que suspendió temporalmente las operaciones de las instalaciones Exide. El acuerdo S&O proporciona mejores protecciones a la salud pública y también ha motivado a algunos ciudadanos a realizar preguntas acerca de cómo esto los impacta a ellos y a la comunidad en general.

Para aclarar las preguntas de la comunidad, el DTSC ha compilado una lista de preguntas frecuentes (FAQs) con respuestas, las cuales estamos incluyendo en las páginas anexas y publicadas en el documento del proyecto Exide en nuestro sitio web, ubicado en:

http://www.dtsc.ca.gov/HazardousWaste/Projects/exide_faq.cfm

Actualizaremos regularmente la lista de FAQs en cuanto nueva información esté disponible.

Para aquellos de ustedes que aún no lo sepan, las instalaciones de reciclaje de baterías de Exide están ubicadas en el 2700 de South Indiana Street, Vernon, California. Las Instalaciones operan una instalación de reciclaje/almacenamiento y tratamiento de metal (plomo) en el sito de la Ciudad de Vernon para la recuperación de plomo proveniente de baterías automotrices y otros materiales que contienen plomo recibidos de fuentes fuera del sitio.

Para actualizaciones vía correo electrónico, por favor suscríbase a la Exide Elist en la siguiente ubicación:
http://www.dtsc.ca.gov/HazardousWaste/Projects/ExideSiteDescription.cfm

Las listas de FAQs están ubicadas en las siguientes dos páginas:

CONTACTOS DEL DTSC

Para preguntas relativas a aspectos técnicos y legales de las FAQs, por favor, contacte a los siguientes miembros del personal del DTSC:

Edward Nieto
Jefe de Equipo
8800 Cal Center Drive
Sacramento, CA 95826
(916) 255-3578
Edward.Nieto@dtsc.ca.gov

Bill Veile, Gerente de Proyecto
(916) 255-3605
Bill.Veile@dtsc.ca.gov

Para todas las demás preguntas, por favor, contacte a:

Tim Chauvel
Especialista en Participación Pública
5796 Corporate Avenue
Cypress, CA 90630
1-866-495-5651 or (714) 484-5487
Tim.Chauvel@dtsc.ca.gov

Para consultas de los medios de comunicación, contacte a:

Russ Edmondson
Oficial de Información Pública
(916) 323-3372
Russ.Edmondson@dtsc.ca.gov

Cal/EPA DTSC State of California

FAQs DEL DTSC PARA EXIDE/24.10.13

Pregunta (P): ¿Cuál es el estado de la orden de suspensión emitida en abril del 2013?

Respuesta (R): El DTSC emitió una orden de suspensión administrativa porque estaba preocupado acerca de las liberaciones de residuos peligrosos y las emisiones al ambiente. Sin embargo, un juez de la Corte Superior de Los Ángeles denegó al departamento en junio de 2013 y ordenó la reapertura de las instalaciones hasta que una audiencia administrativa pudiera ser llevada a cabo. Cuando la audiencia administrativa realizada fue pospuesta, el mismo juez ordenó a Exide a los tribunales el 22 de octubre de 2013, para explicar por qué no debía levantar la sentencia que mantuvo las instalaciones abiertas. El resultado de la orden de suspensión está actualmente en proceso y se publicara una actualización en una fecha posterior.

P: ¿Qué es la Estipulación y Orden entre Exide y el DTSC y qué significa esto para mí?

R: La Estipulación y Orden resuelve la orden de suspensión administrativa que el DTSC emitió en contra de Exide en abril del 2013 y resuelve una acción legal que Exide presentó en contra del DTSC en junio de 2013. La Estipulación y Orden establece condiciones que Exide debe cumplir y límites de tiempo para completarlas. Ésta requiere a Exide reservar $7.7 millones en un fondo especial para modernizar el sistema de agua de lluvia, reducir las emisiones de arsénico en el ambiente, analizar el plomo en la sangre de los residentes en la comunidad y tomar muestras de polvo y suelo en los alrededores de las instalaciones. Ésta establece una escala variable de multas hasta por $10,000 diarios si las condiciones no se cumplen. Esto significa que Exide está siendo rigurosamente monitoreada y las operaciones de la instalación se volverán seguras o el DTSC las clausurará nuevamente si las instalaciones representan un peligro inminente y sustancial a la salud pública y al medio ambiente. La Estipulación y Orden contempla preocupaciones adicionales a aquellas planteadas en la orden de suspensión anterior. La Estipulación y Orden es independiente de la solicitud de Exide para un permiso, el cual será decidido por sus propios méritos.

P: ¿Cuáles son las condiciones de Estipulación y Orden?

R: Exide debe terminar lo siguiente en límites de tiempo específicos o enfrentar multas potenciales:

- Reemplazar un sistema de ductos subterráneos deteriorado y con fugas.
- Instalación de aparatos de control de contaminación del aire para reducir las emisiones de arsénico.
- Análisis de niveles de plomo en la sangre para los residentes cercanos.
- Muestreo de polvo y suelo en los alrededores de las instalaciones.

P: **¿Existen disposiciones en la nueva Estipulación y Orden que no fueron incluidas en la orden de suspensión que clausuró temporalmente la planta de Vernon en abril?**

R: Sí, la orden original no requería los análisis de sangre de los residentes o el muestreo del suelo. La información de esas medidas adicionales ayudará al DTSC a determinar el impacto de Exide en la comunidad y ayudará a formar acciones en el futuro. Esas medidas adicionales proporcionarán información importante para la comunidad.

P: **¿Cómo empleará Exide los $7.7 millones?**

R: Bajo la Estipulación y Orden, Exide está reemplazando un sistema de agua de lluvia por un sistema de doble pared más avanzado a un costo de más de $ 4 millones para finales de año. Cerca de $2.5 millones serán dedicados a reducir emisiones a través de la instalación de más filtros de alta eficiencia y modificaciones a la caldera. Fondos adicionales pagarán también por los análisis voluntarios de sangre para residentes de Vernon y otros vecindarios cercanos y por el muestreo de suelo y polvo fuera de las instalaciones.

P: **¿Cómo beneficiarán a la comunidad los análisis de niveles de plomo en la sangre de los residentes y los muestreos de suelo y polvo?**

R: Los análisis proporcionarán más información en relación a los impactos potenciales para la salud y el medio ambiente de las instalaciones de Exide. Mayores niveles de plomo en la sangre pueden ser un indicador de un riesgo a la salud. Esos hallazgos, combinados con la información del muestreo de suelo y polvo, ayudarán a determinar si las instalaciones son una fuente de contaminación. Esta información será útil para el DTSC al determinar los pasos futuros.

FAQs DEL DTSC PARA EXIDE/24.10.13 CONTINUACIÓN

P: **Dado que Exide se declaró en bancarrota, ¿qué garantías existen de que la compañía pagará por el trabajo?**

R: El DTSC ha ordenado a Exide reservar $7.7 millones en una cuenta especial para realizar las reparaciones requeridas y para llevar a cabo los muestreos de sangre, suelo y polvo. Exide debe obtener aprobación de la corte de bancarrota para emplear dichos fondos. La corte de bancarrota estableció el 5 de noviembre como la fecha para atender el asunto. Asumiendo que la corte de bancarrota apruebe el gasto, mientras las instalaciones estén operando, Exide debe emplear los $7.7 millones en las mejoras de las instalaciones especificadas en la Estipulación y Orden.

P: **¿De qué otra manera están protegidos la comunidad y el ambiente mientras las reparaciones/modernizaciones están siendo realizadas?**

R: La Estipulación y Orden no impide al DTSC, al Distrito de Gestión de la Calidad el Aire de South Coast u otras agencias a ejercer su autoridad y tomar medidas adicionales.

P: **¿Puede el DTSC requerir a Exide emplear más de $7.7 millones?**

R: Sí, el DTSC cuenta con herramientas de aplicación disponibles que pueden ser utilizadas para requerir fondos adicionales, incluyendo aquellos para propósitos de realización de acciones correctivas y de clausura de las instalaciones.

P**: ¿Por qué la Estipulación y Orden no incluye compensación económica para los miembros de la comunidad que han sufrido impactos en la salud como resultado de las operaciones de Exide?**

R: El DTSC no tiene autoridad para requerir compensación para las personas que declaran haber sido afectadas por las operaciones de la instalación.

P: **¿Qué más está llevando a cabo el DTSC en relación con las instalaciones Exide de Vernon?**

R: Exide opera en virtud de una autorización de carácter provisional y el DTSC está revisando la solicitud de permiso de la compañía. Como parte de esta revisión, el DTSC podría imponer requerimientos adicionales que pueden forzar a Exide a invertir más dinero en la modernización de las instalaciones. Adicionalmente, Exide ha sido requerida a reservar $10.9 millones en un fondo especial para pagar los costos asociados con el cierre de la instalación, si esto ocurriera.

Q: ¿Cuál es el impacto del caso de bancarrota de Exide en la acción de ejecución del DTSC y qué implica esto para la comunidad?

A: El DTSC es un acreedor. El caso de bancarrota es un procedimiento legal federal iniciado por Exide. La corte de bancarrota estableció el 31 de octubre como fecha límite para que los acreedores de Exide presenten pruebas de reclamación y en septiembre aprobó la petición de Exide para gastar $16 millones en bonos para sus ejecutivos. Como se señaló anteriormente, la corte de bancarrota también debe aprobar el gasto de los fondos establecidos en la Estipulación y Orden.

If you have questions for Exide Technologies regarding the soil sampling, please contact Ed Mopas at (323) 262-1101, ext. 259.

APPENDIX B

Property Sketches

INCLUDE THE FOLLOWING ON SKETCH AS APPLICABLE:

- SAMPLE LOCATIONS
- PAINTED STRUCTURES
- PAVED/PATIO AREAS
- DRIVEWAY/PARKING AREAS
- GRASSY AREAS
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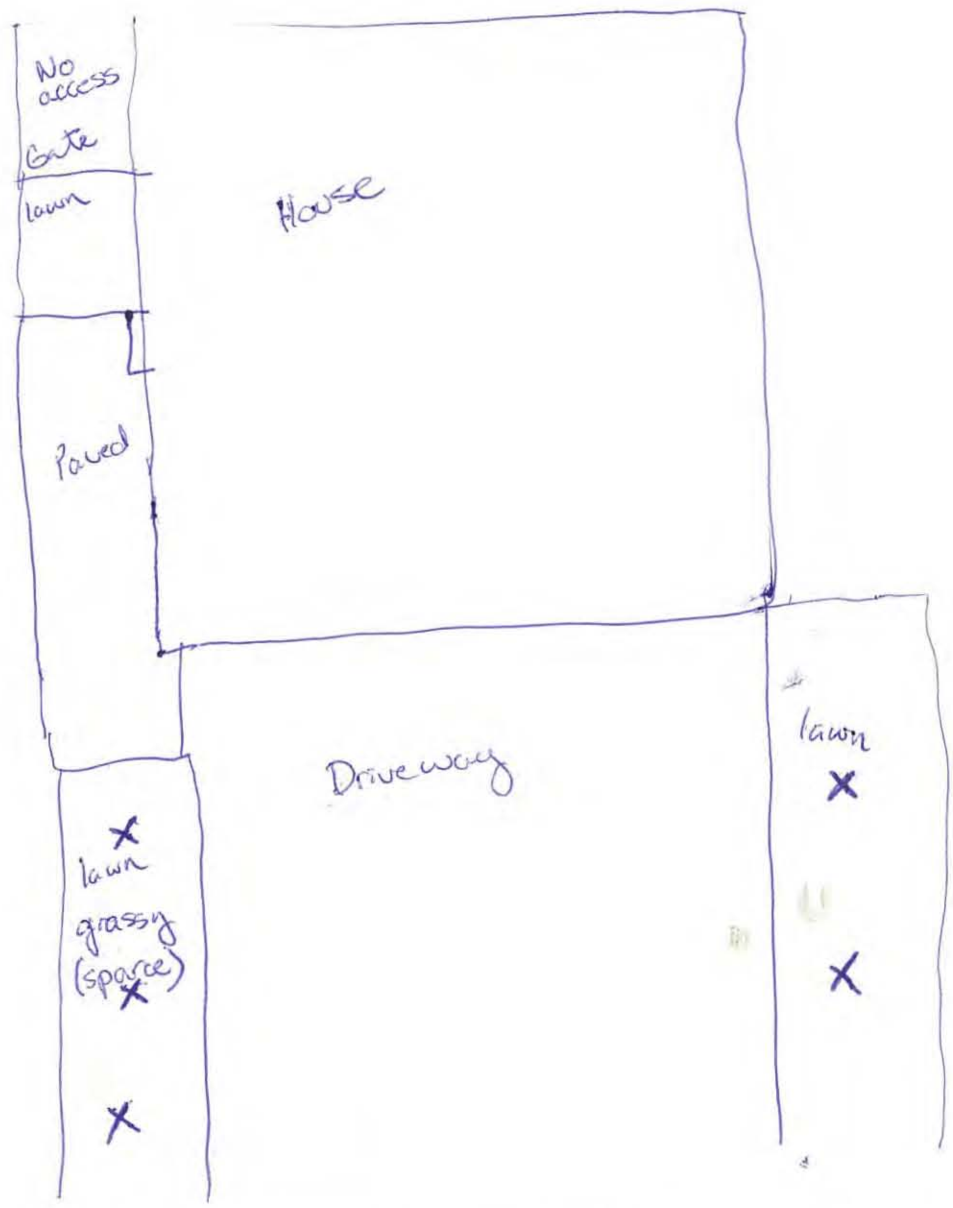
- PLAY AREAS
- STREET/SIDEWALK LOCATION
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-BG-01



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RESIDENTIAL OFF-SITE PROPERTY SKETCH

EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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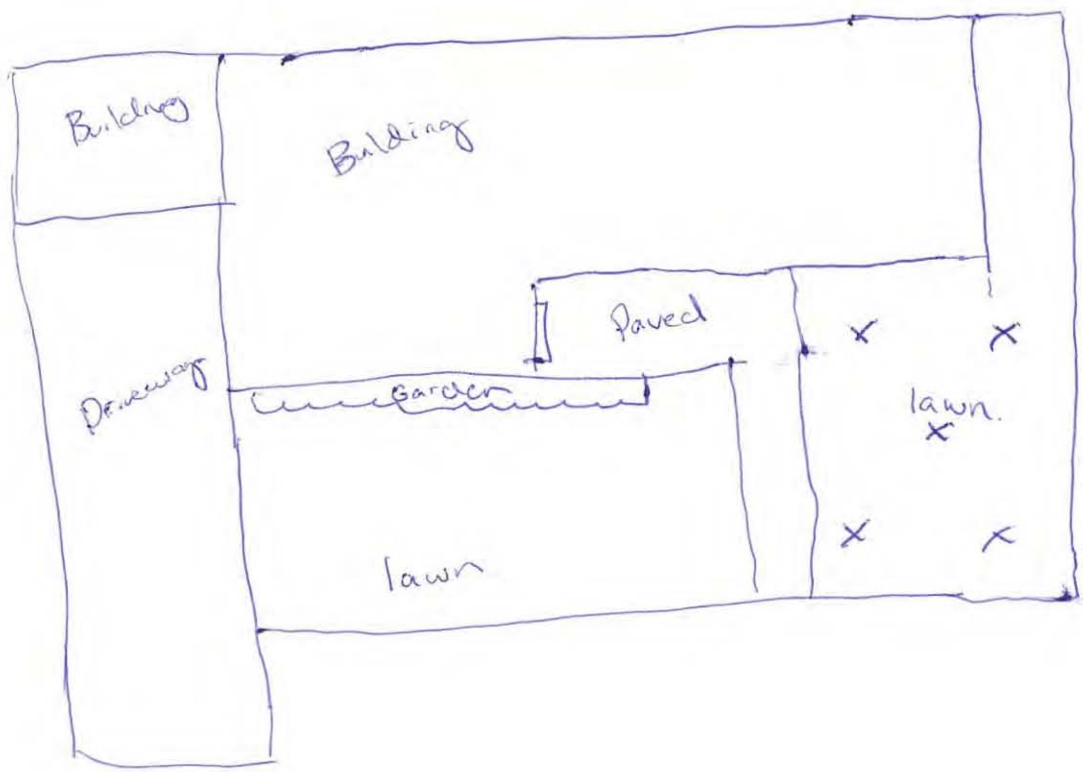

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OBTAIN PHOTO-DOCUMENTATION

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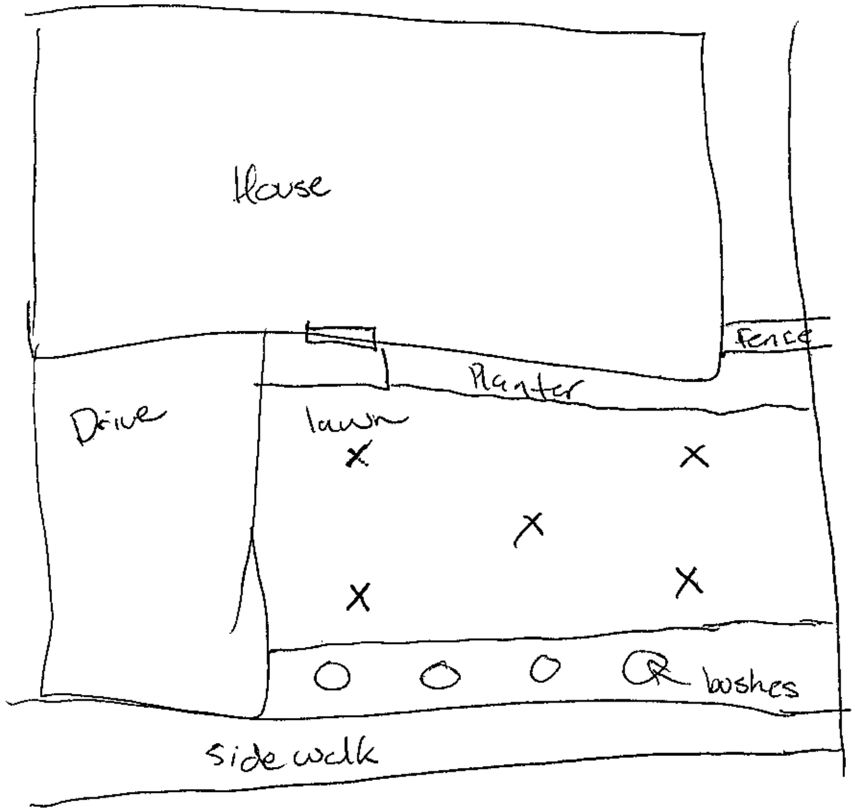

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OBTAIN PHOTO–DOCUMENTATION

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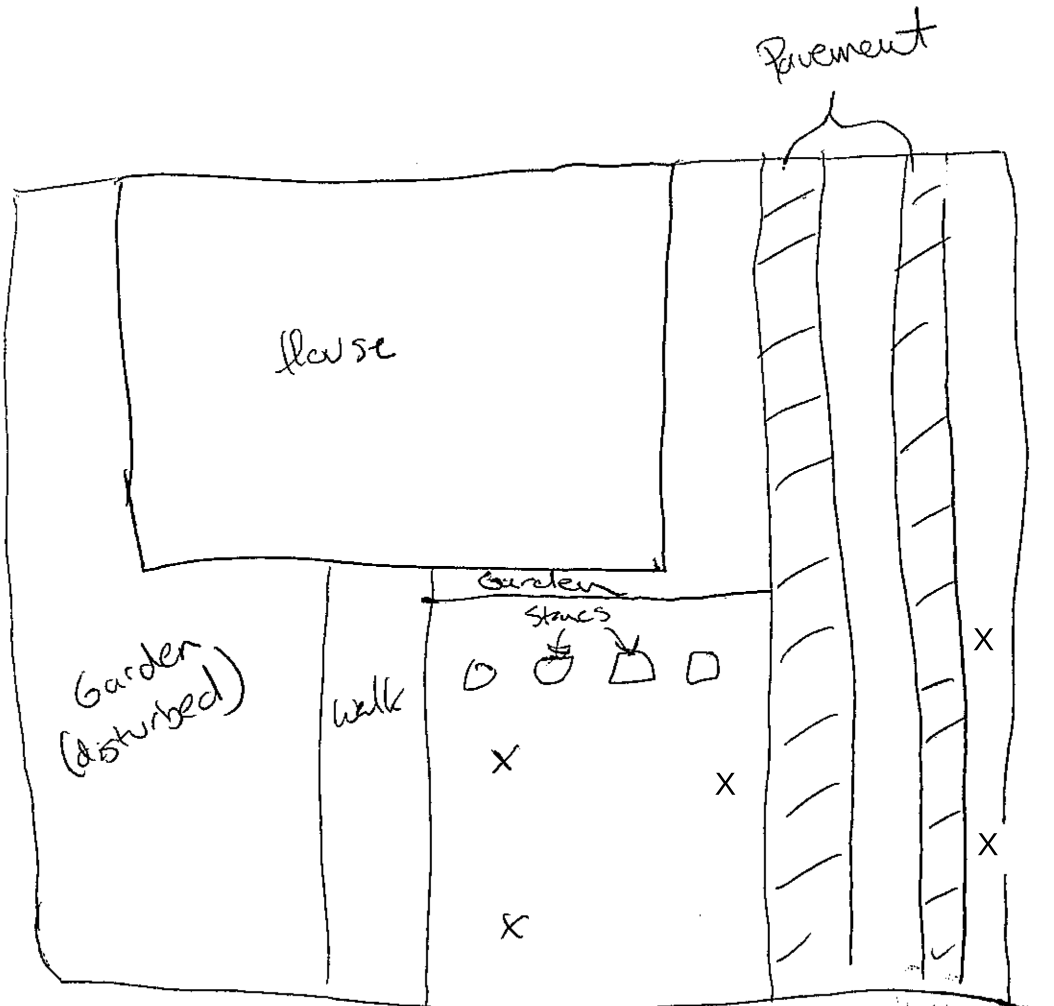

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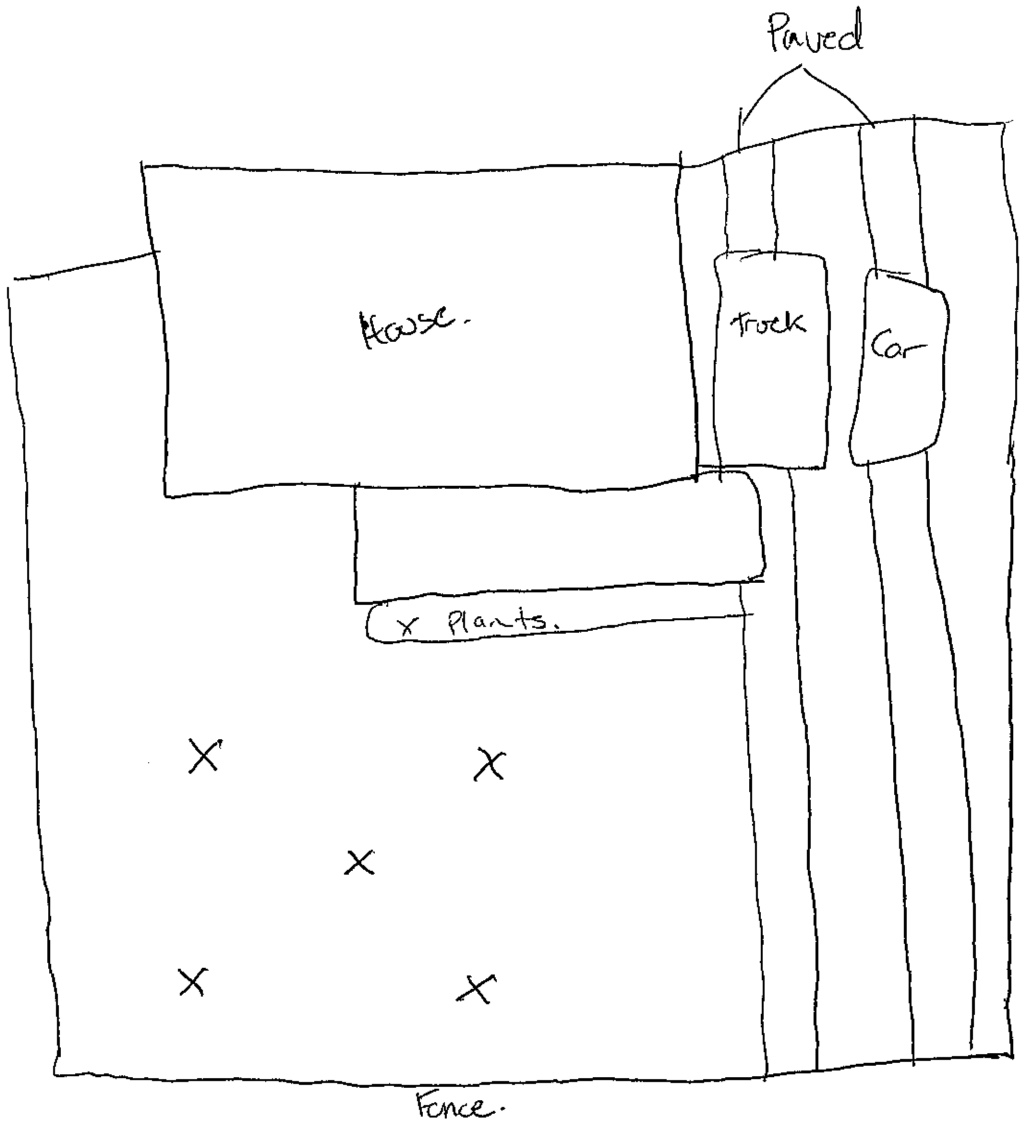

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OBTAIN PHOTO-DOCUMENTATION

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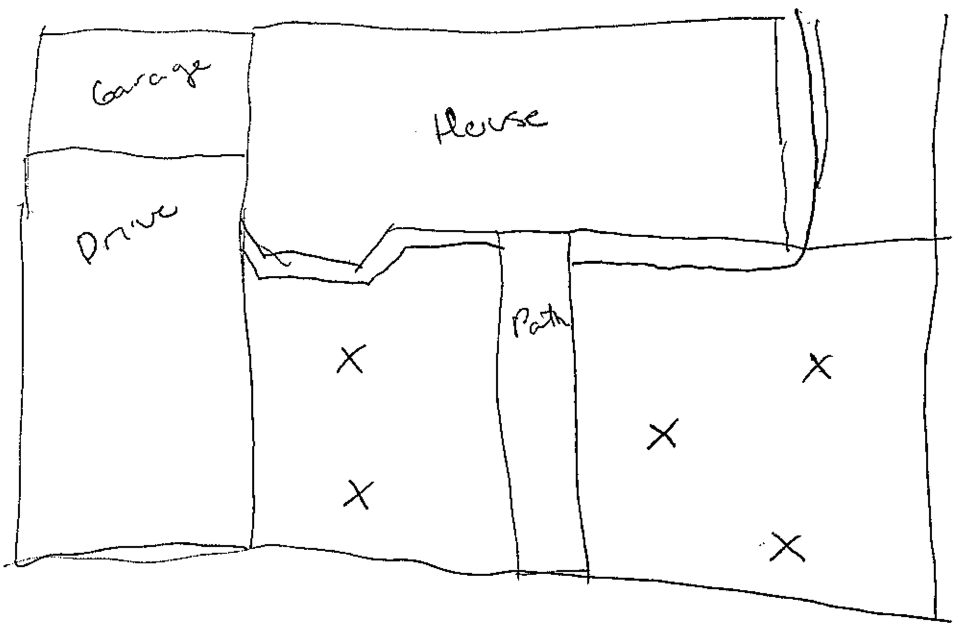

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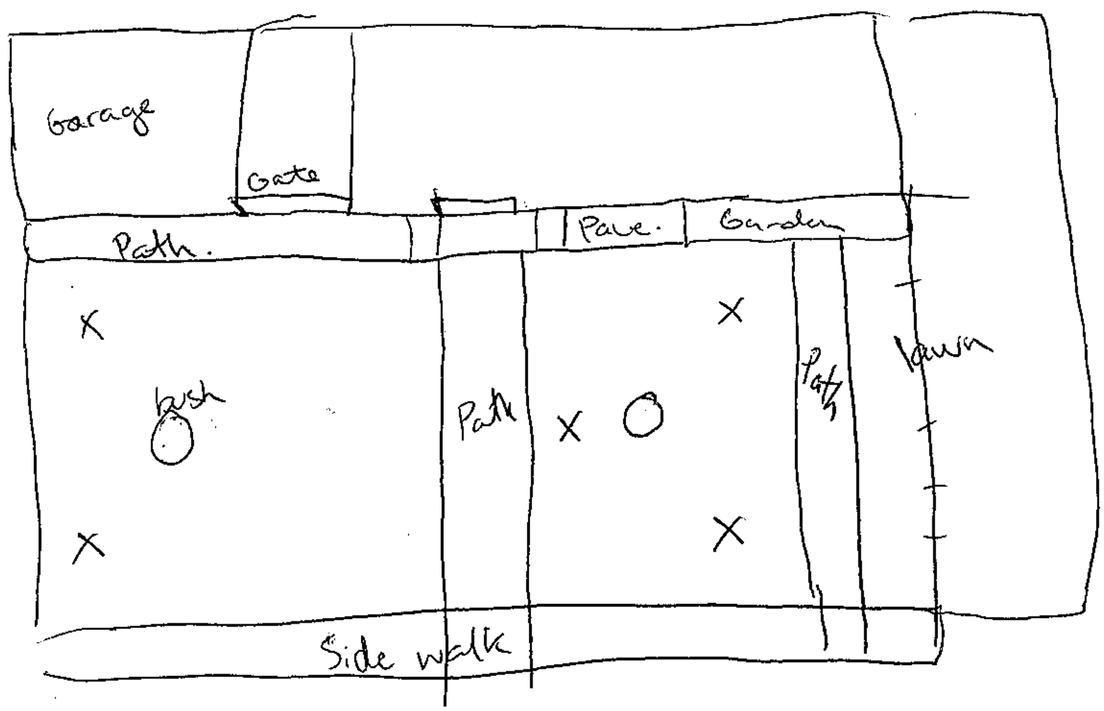

Parts of lawn contained green mesh indicating sod had been laid over yard at some time in the past

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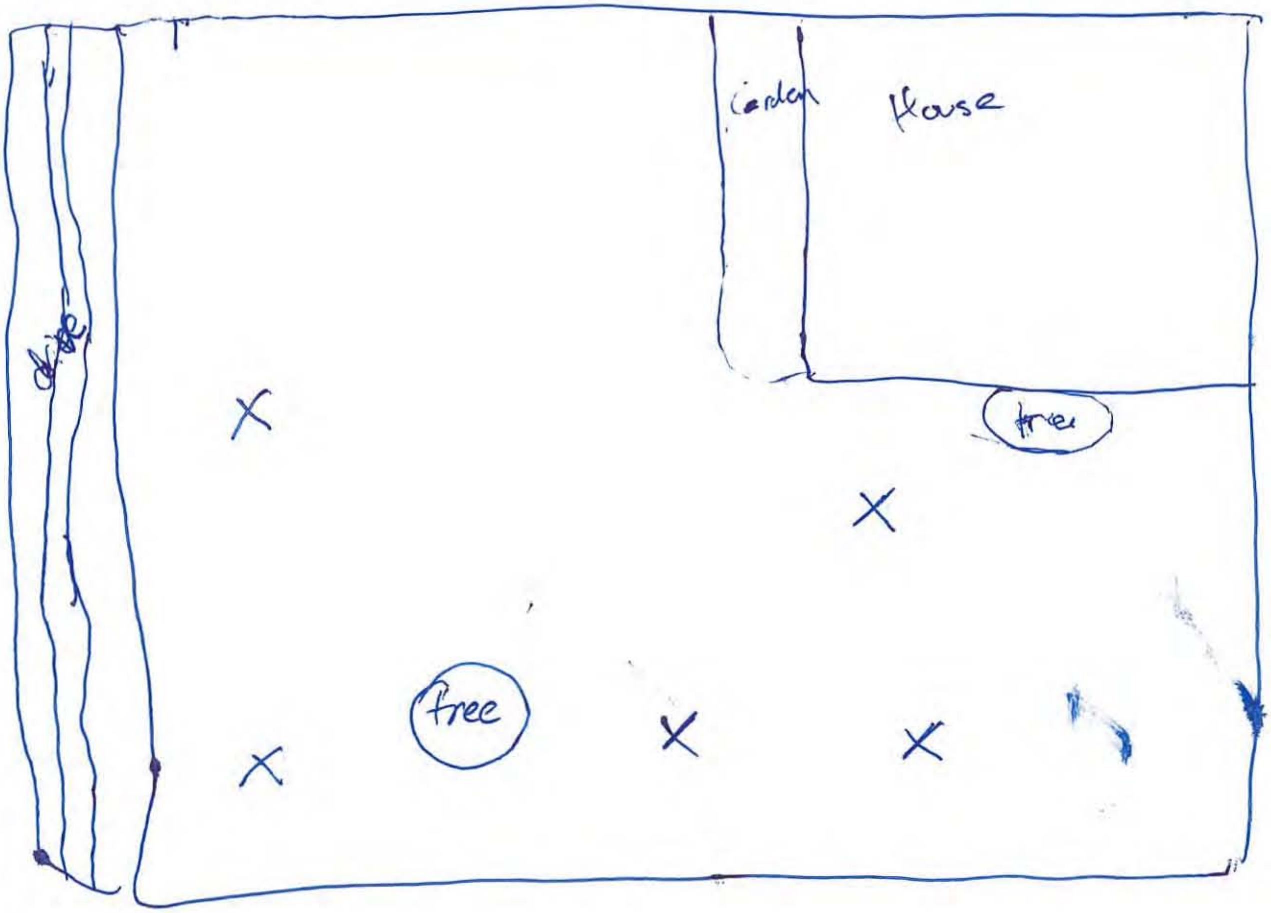

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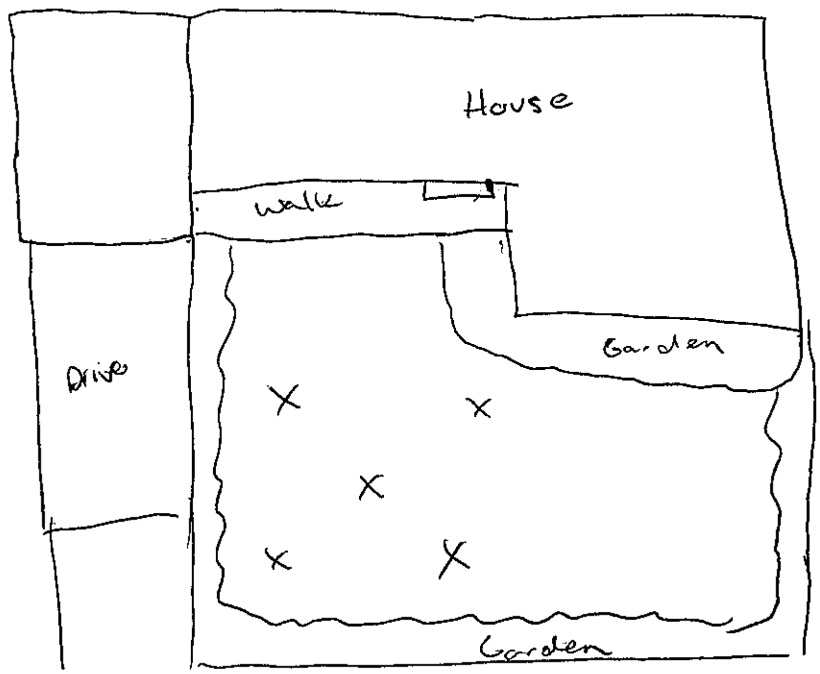

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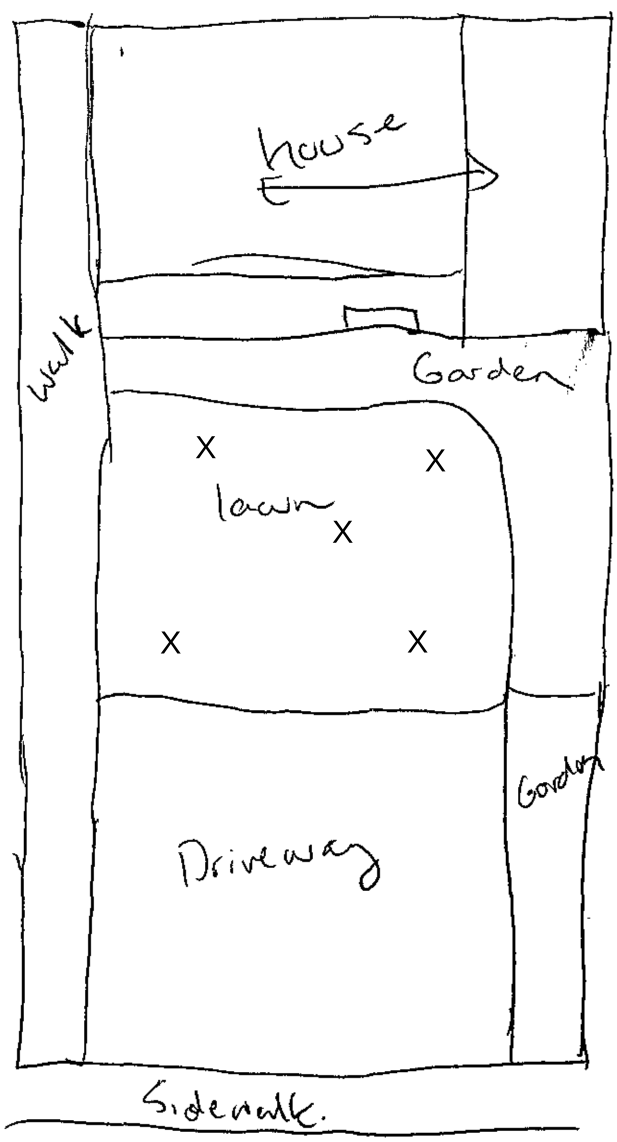
SS-BG-11



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DRAWN BY: KO		DATE:	FIGURE: SK-1

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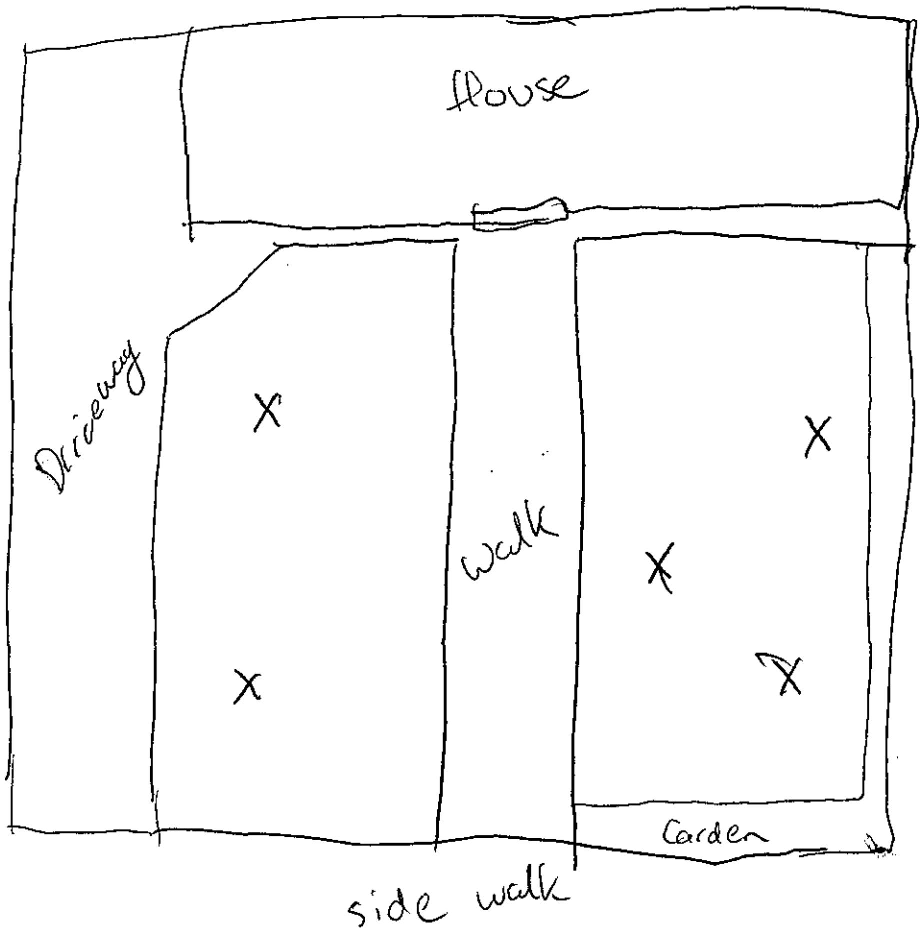
OBTAIN PHOTO-DOCUMENTATION

SS-BG-12.



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RESIDENTIAL OFF-SITE PROPERTY SKETCH

EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

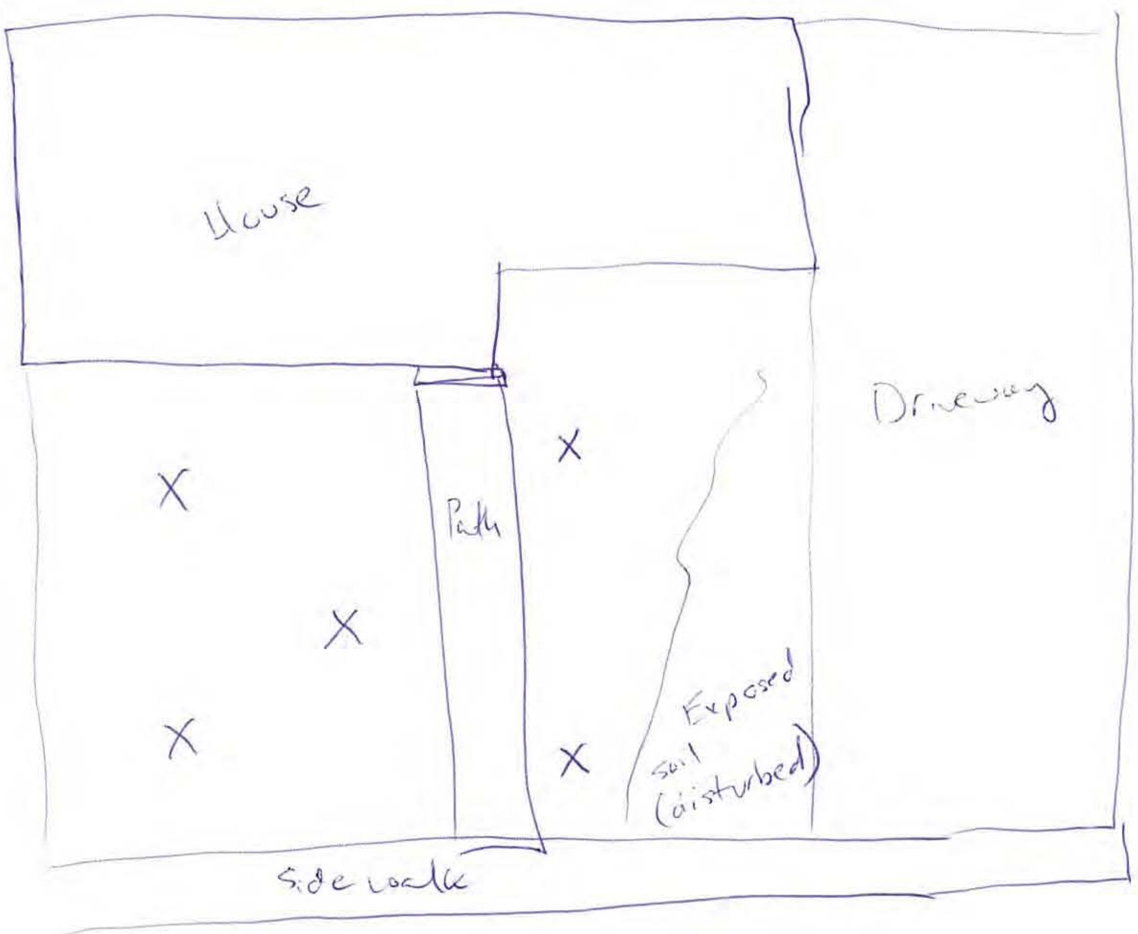
PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

INCLUDE THE FOLLOWING ON SKETCH AS APPLICABLE:

- SAMPLE LOCATIONS
- PAINTED STRUCTURES
- PAVED/PATIO AREAS
- DRIVEWAY/PARKING AREAS
- GRASSY AREAS
- BARE SOIL AREAS
- PLAY AREAS
- STREET/SIDEWALK LOCATION
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SSB6-13
- green mesh indicating more recent sod.



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	PROJECT ENGINEER: P.G.S.	SCALE:	NTS
	CHECKED BY:	PROJECT NUMBER:	2013-3007
	DRAWN BY: KO	DATE:	FIGURE: SK-1

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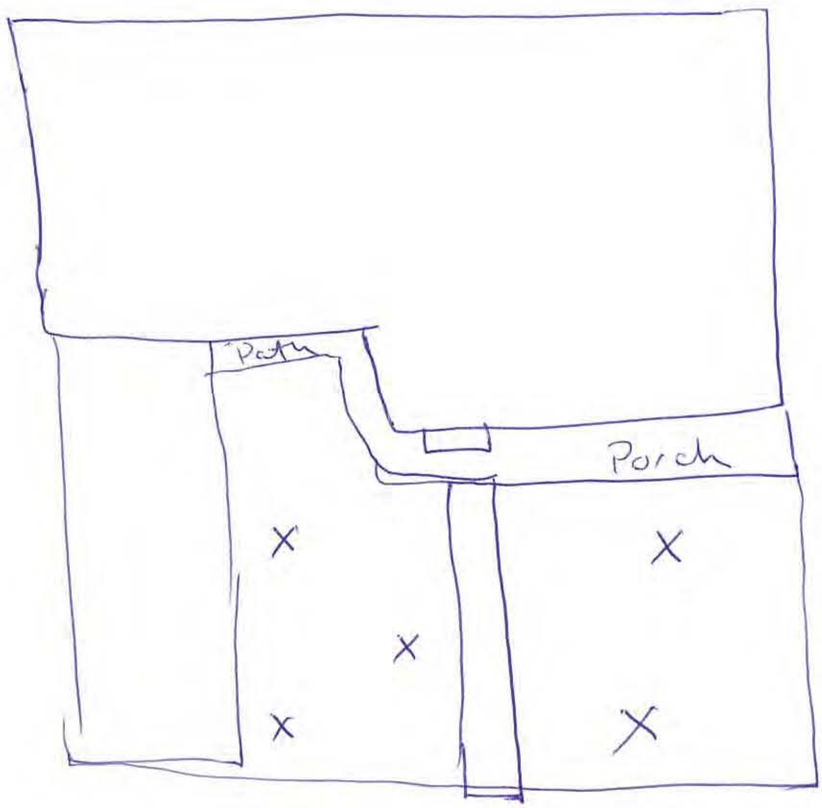
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

BG-SS-14



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VERNON, CALIFORNIA

PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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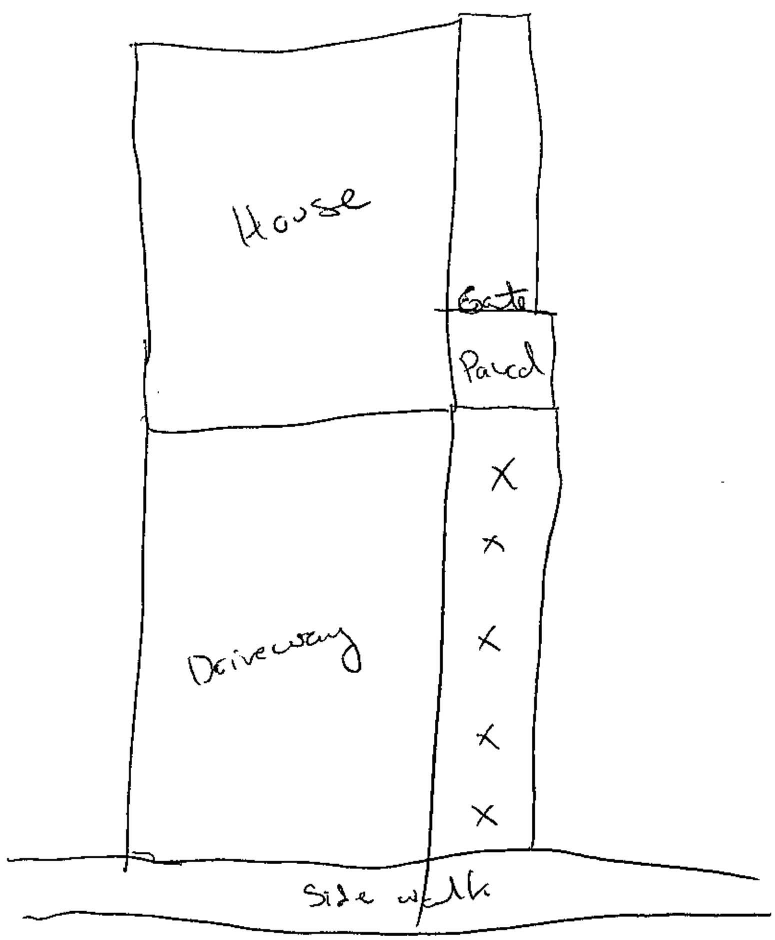
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

85-BG-15



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VERNON, CALIFORNIA

PROJECT ENGINEER: P.G.S.	SCALE: NTS		
CHECKED BY:	PROJECT NUMBER: 2013-3007		
DRAWN BY: KO	DATE:	FIGURE: SK-1	

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- RECENTLY DISTURBED AREAS
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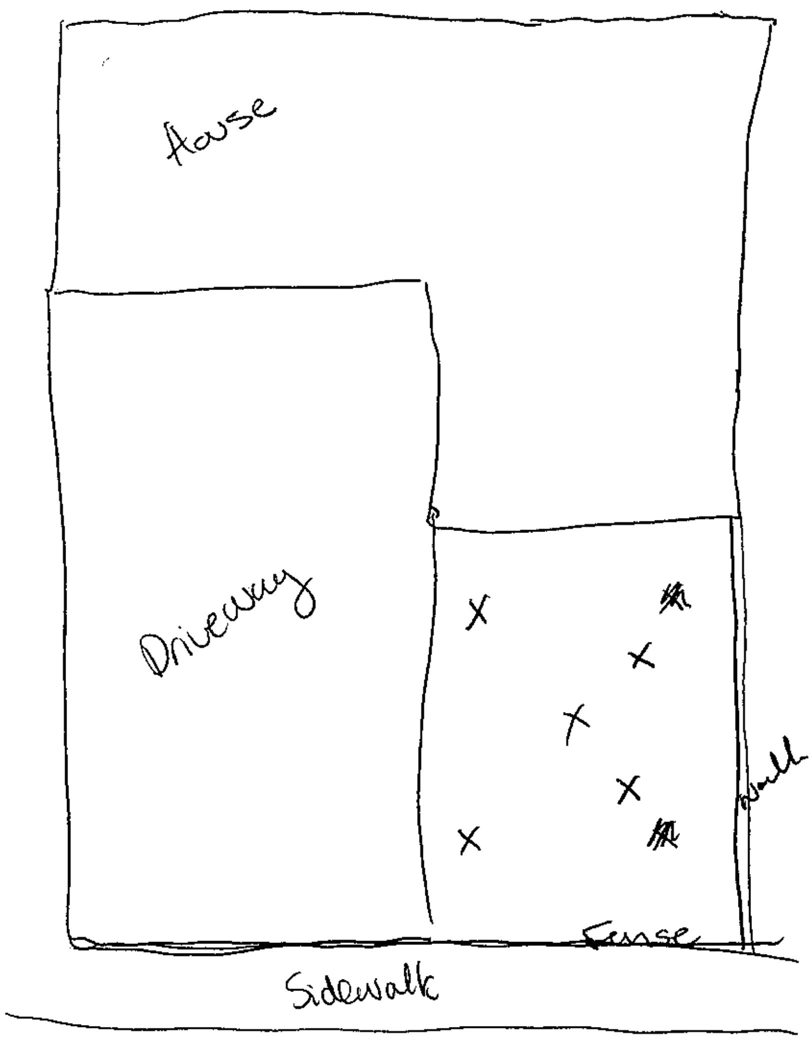
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-BG-16



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PROJECT ENGINEER: P.G.S.	SCALE: NTS		
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DRAWN BY: KO	DATE:	FIGURE: SK-1	

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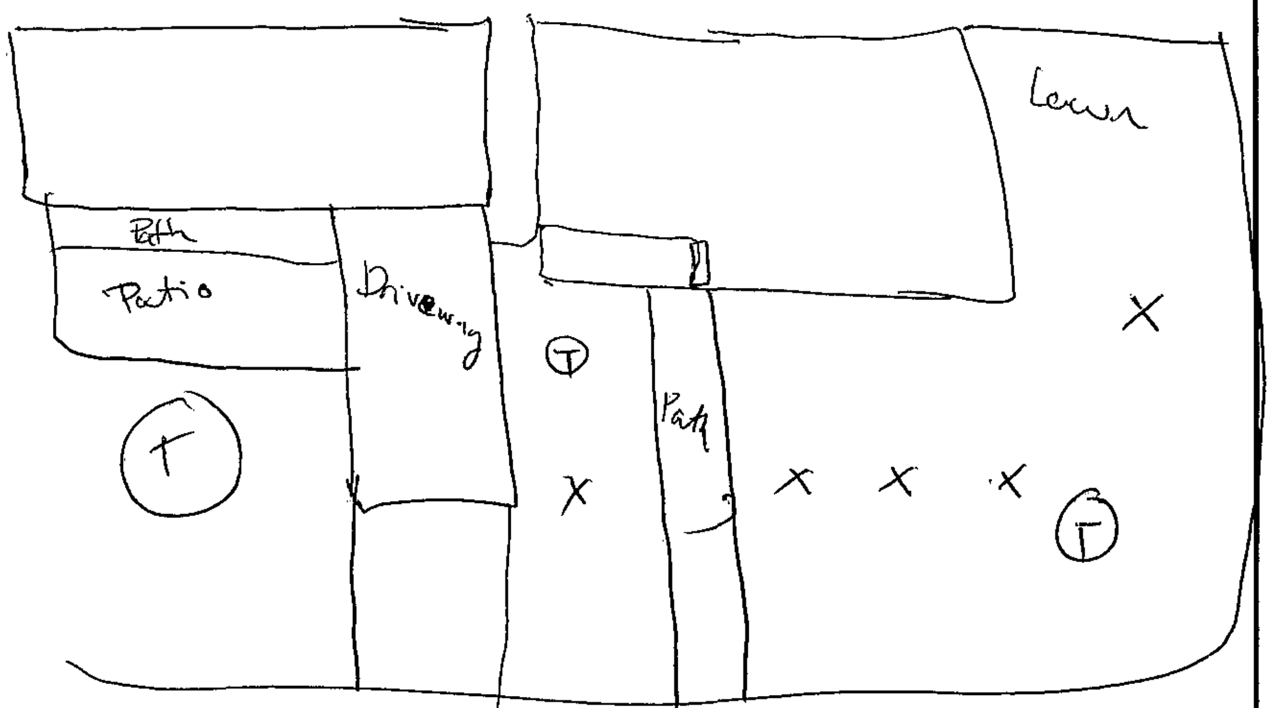
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-B6-17-A



Not to scale
should be widen

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PROJECT ENGINEER: P.G.S.	SCALE: NTS		
CHECKED BY:	PROJECT NUMBER: 2013-3007		
DRAWN BY: KO	DATE:	FIGURE: SK-1	

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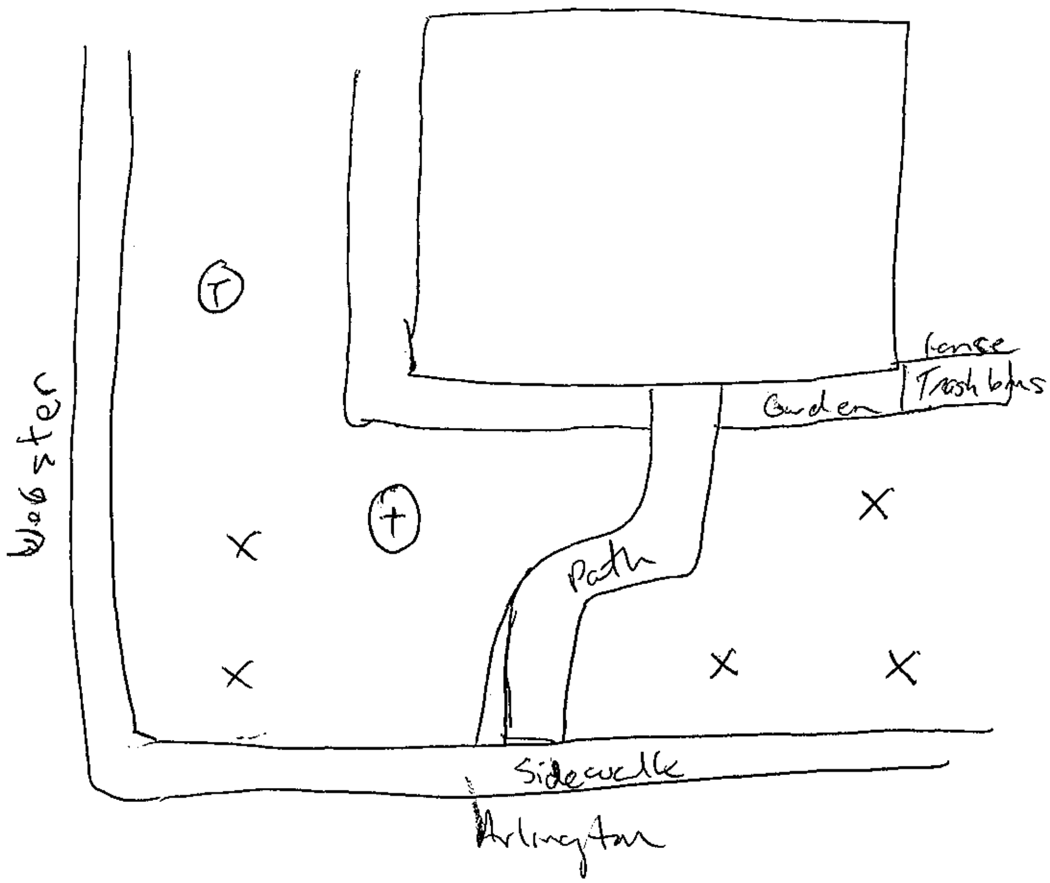
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-B6-18



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PROJECT ENGINEER: P.G.S.	SCALE: NTS		
CHECKED BY:	PROJECT NUMBER: 2013-3007		
DRAWN BY: KO	DATE:	FIGURE: SK-1	

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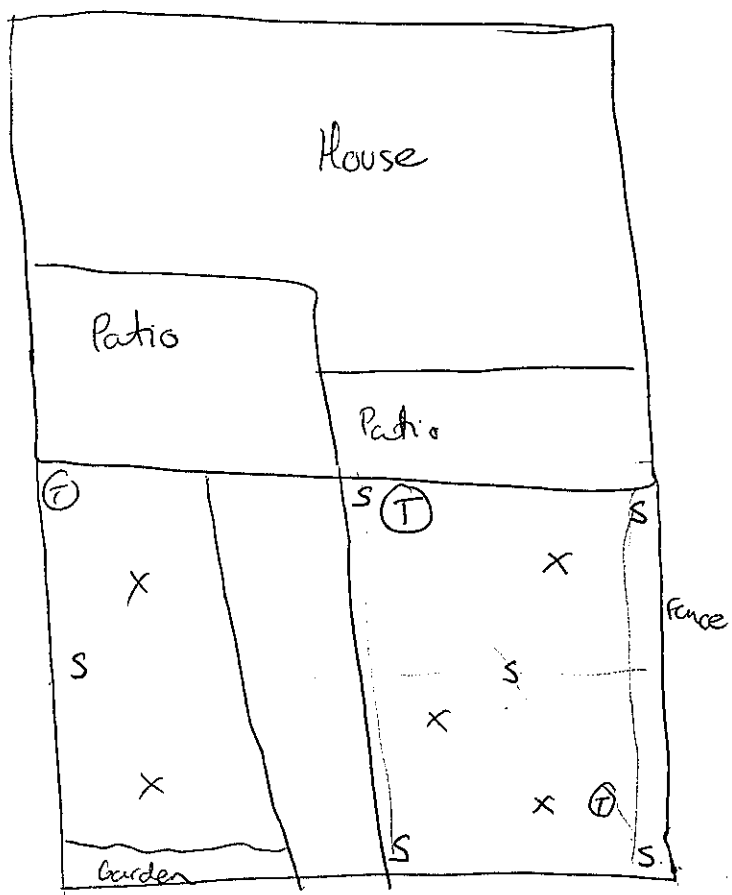
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS B6-19



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PROJECT ENGINEER: P.G.S.	SCALE: NTS
CHECKED BY:	PROJECT NUMBER: 2013-3007
DRAWN BY: KO	DATE: / FIGURE: SK-1

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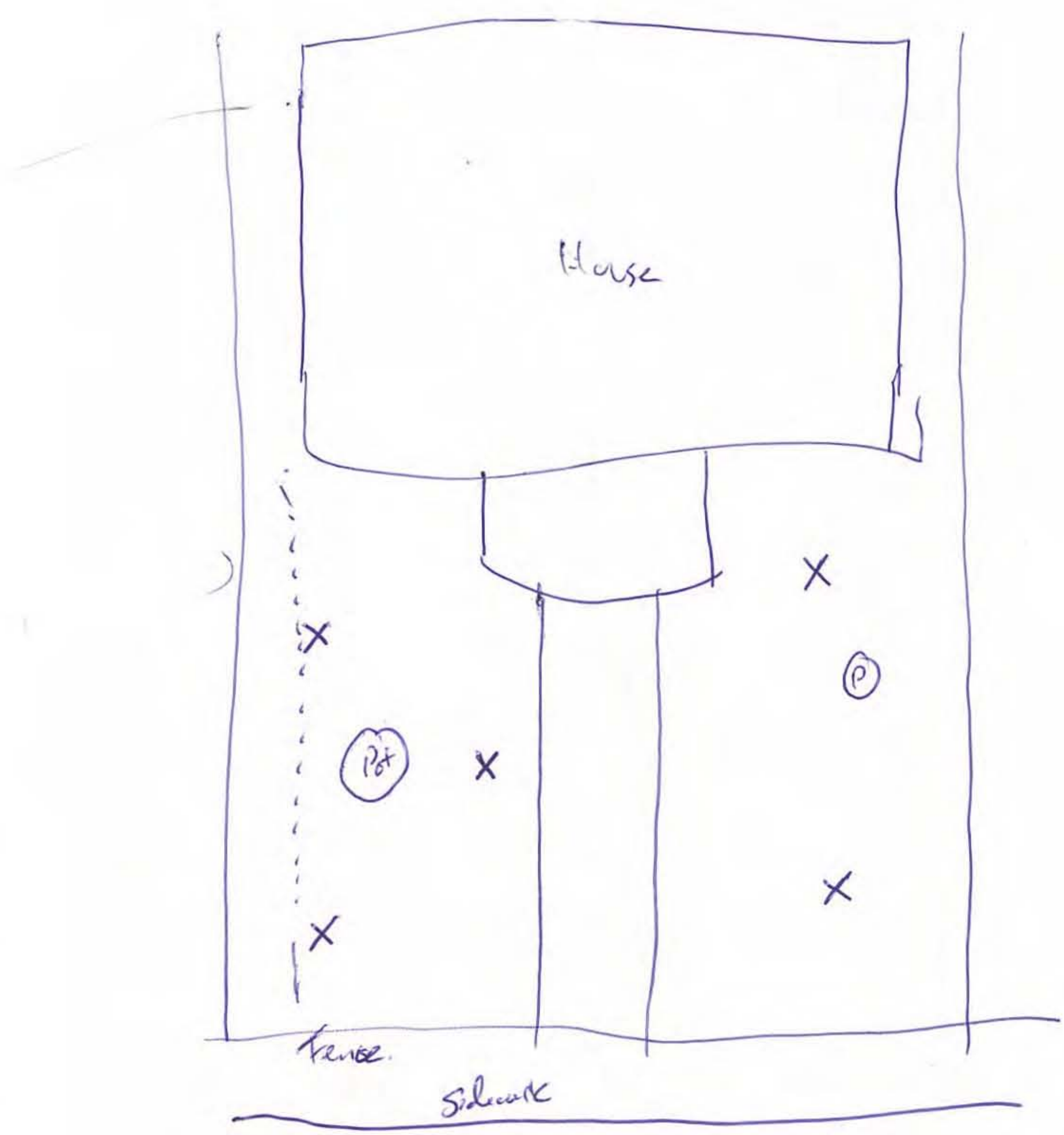
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO–DOCUMENTATION

SS-MEIR-01 (N)



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PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013–3007	
DRAWN BY: KO	DATE:	FIGURE:	SK–1

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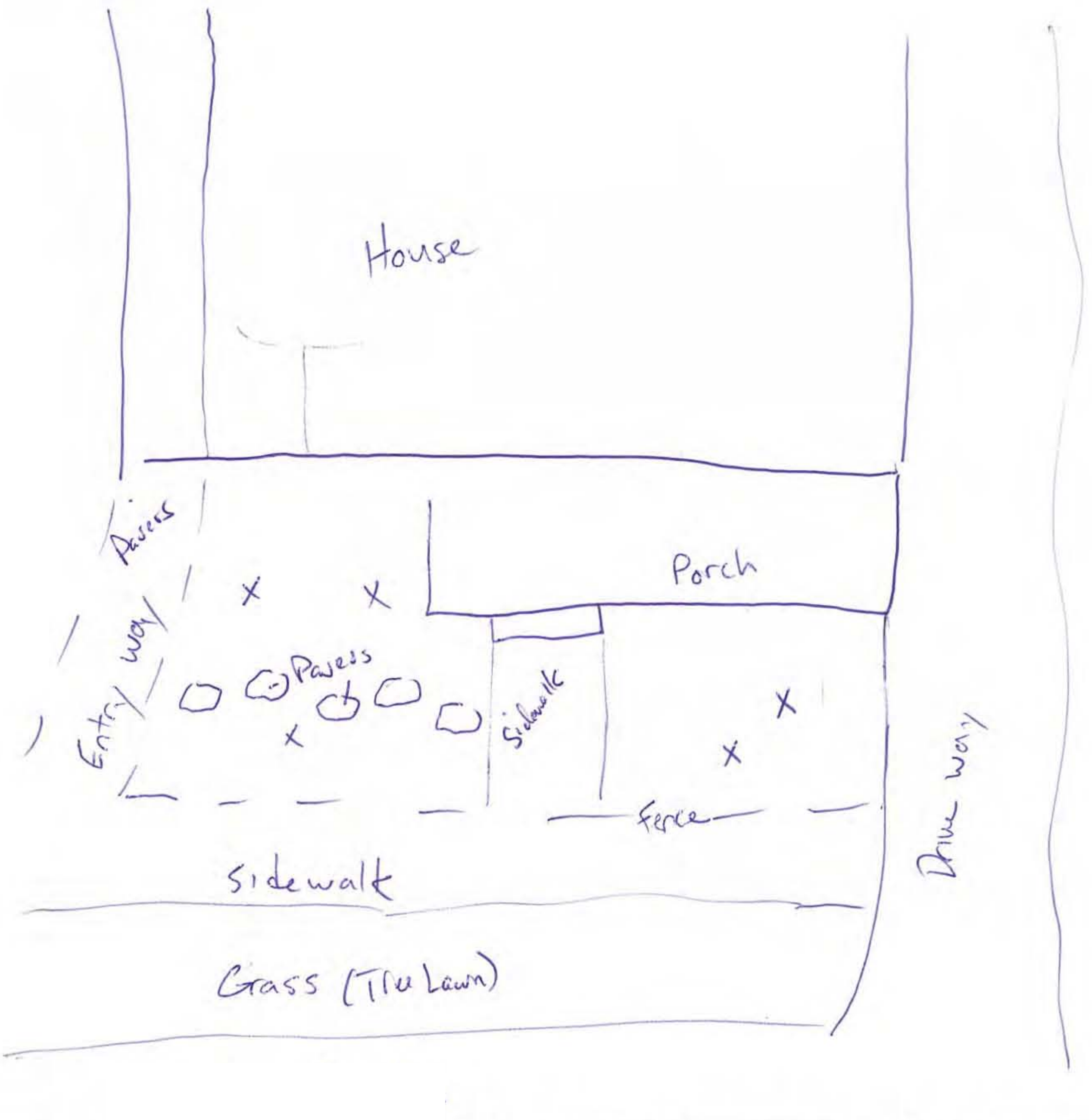
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MEIR-02 (W)



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PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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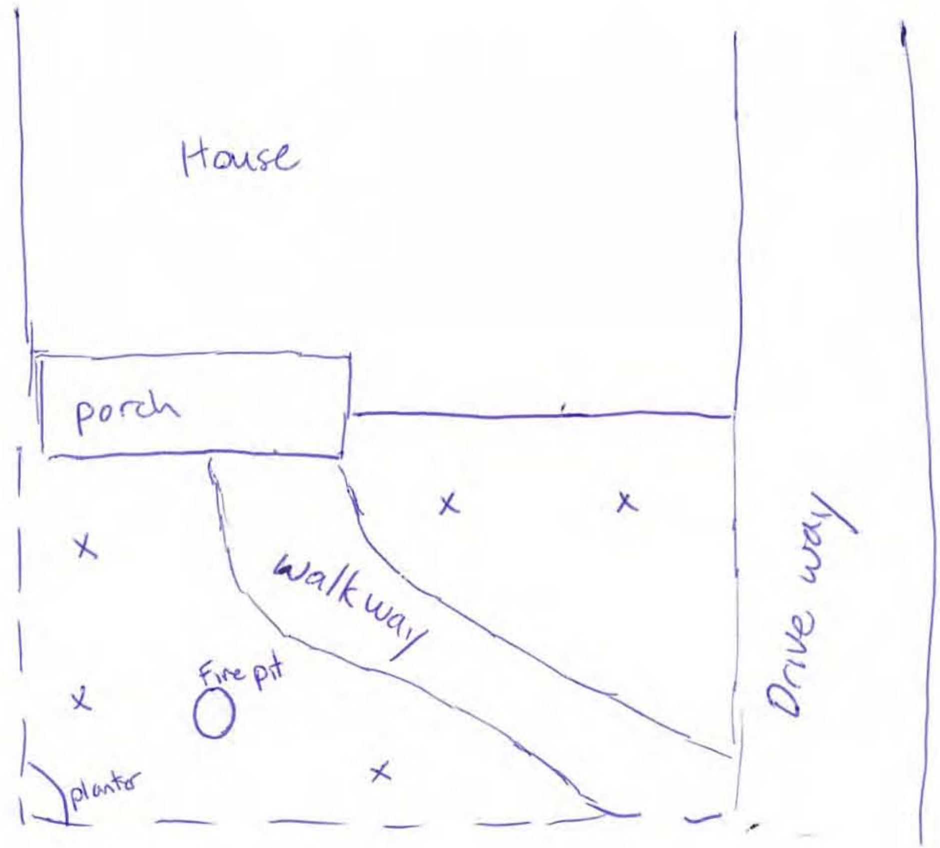
OBTAIN PHOTO-DOCUMENTATION

SS-MEIR-03 (W)



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PROJECT ENGINEER:	P.G.S.	SCALE:	NTS
CHECKED BY:		PROJECT NUMBER:	2013-3007
DRAWN BY:	KO	DATE:	FIGURE: SK-1

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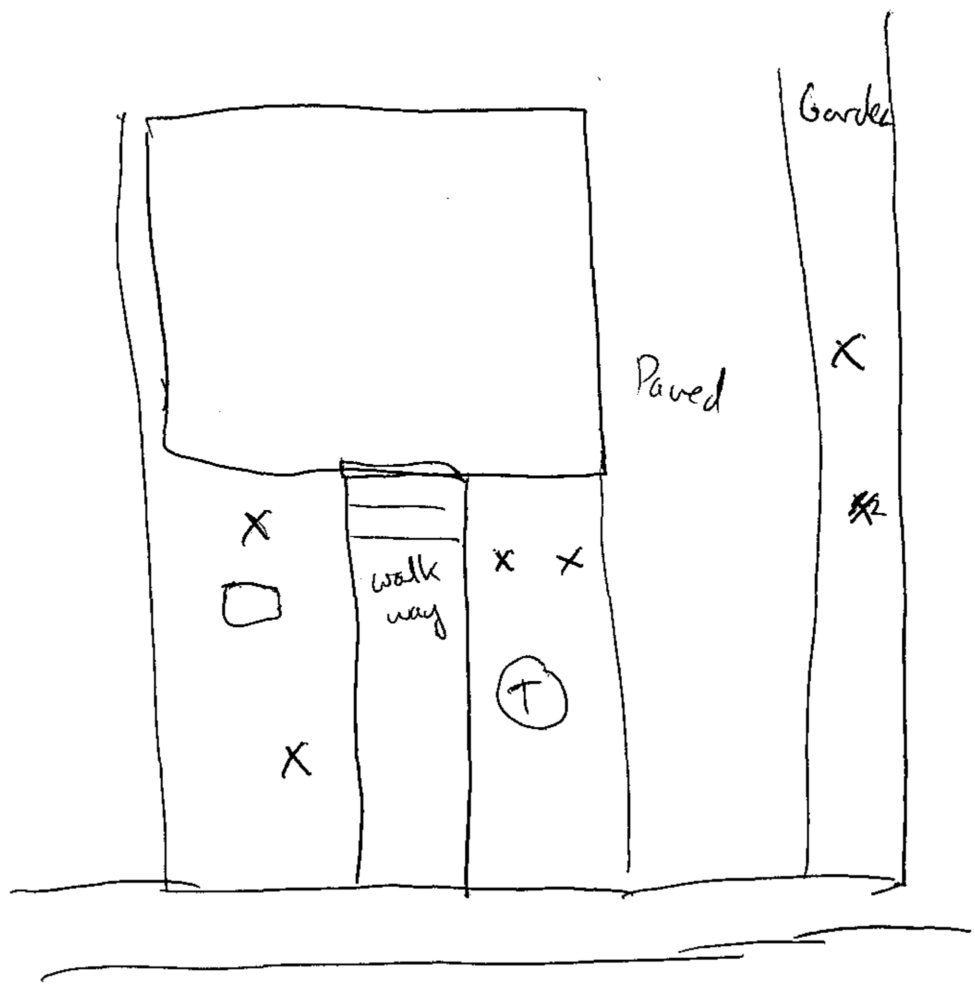
OBTAIN PHOTO-DOCUMENTATION

SS-MEIR-N-04



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VERNON, CALIFORNIA

PROJECT ENGINEER: P.G.S.	SCALE: NTS		
CHECKED BY:	PROJECT NUMBER: 2013-3007		
DRAWN BY: KO	DATE:	FIGURE: SK-1	

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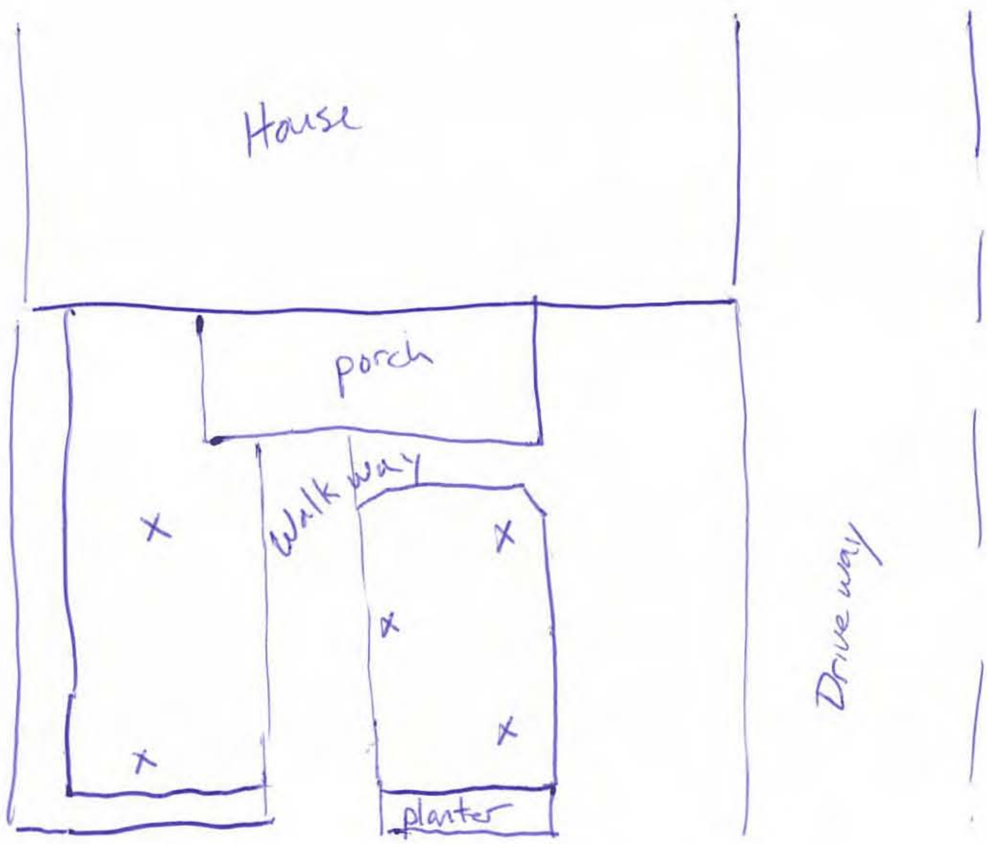
OBTAIN PHOTO-DOCUMENTATION

SS-MEIR-N-05



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VERNON, CALIFORNIA

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DRAWN BY:	KO	DATE:	FIGURE: SK-1

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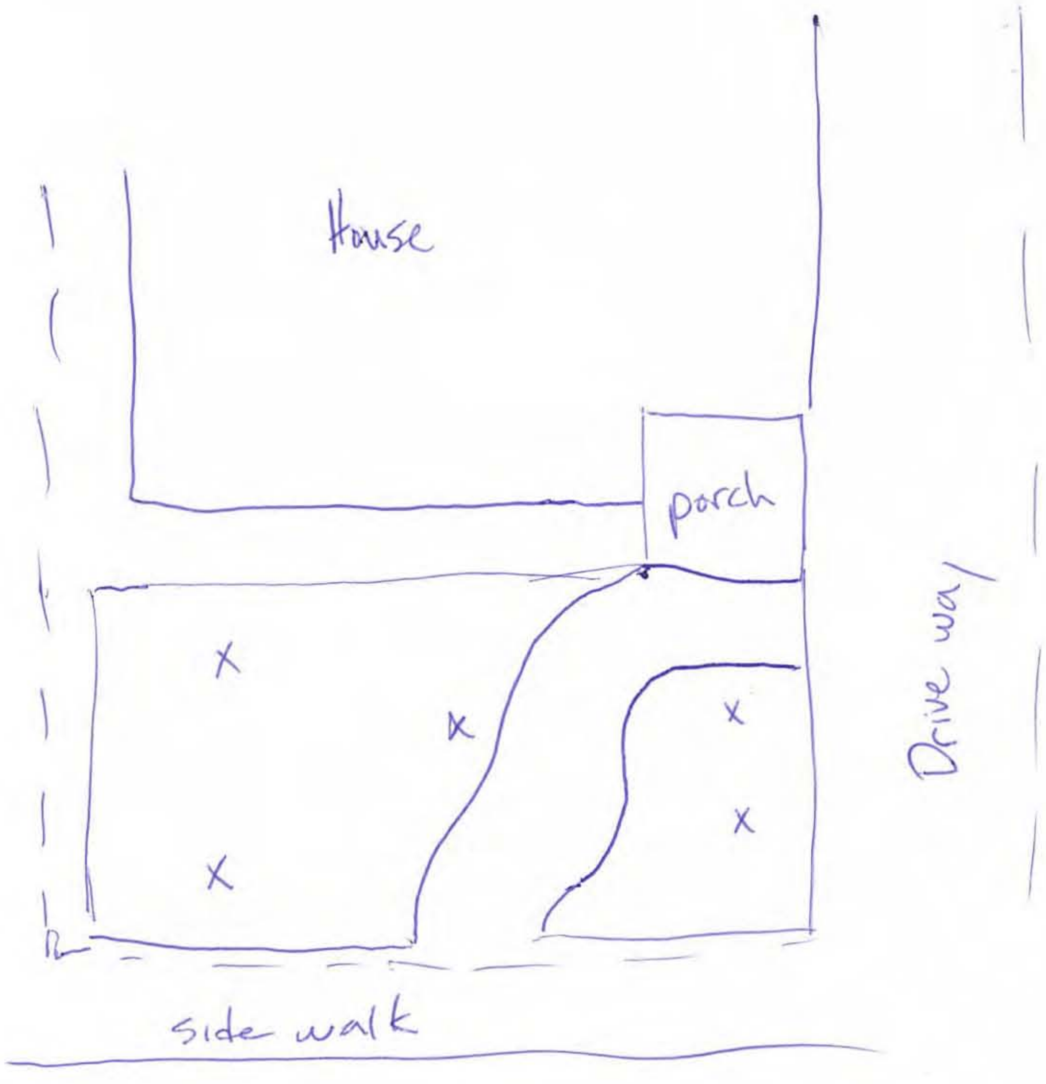
OBTAIN PHOTO-DOCUMENTATION

SS-MEIR-N-06



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VERNON, CALIFORNIA

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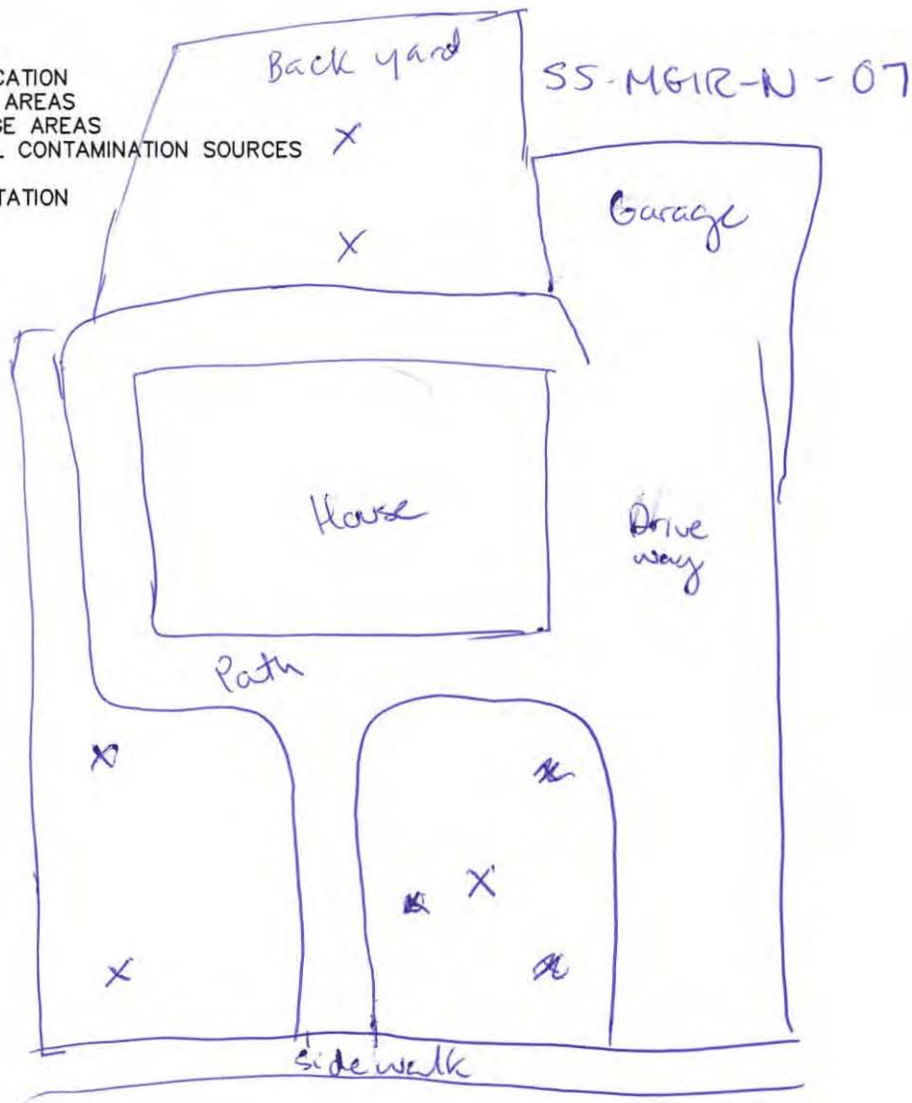

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CHECKED BY:	PROJECT NUMBER:	2013-3007	
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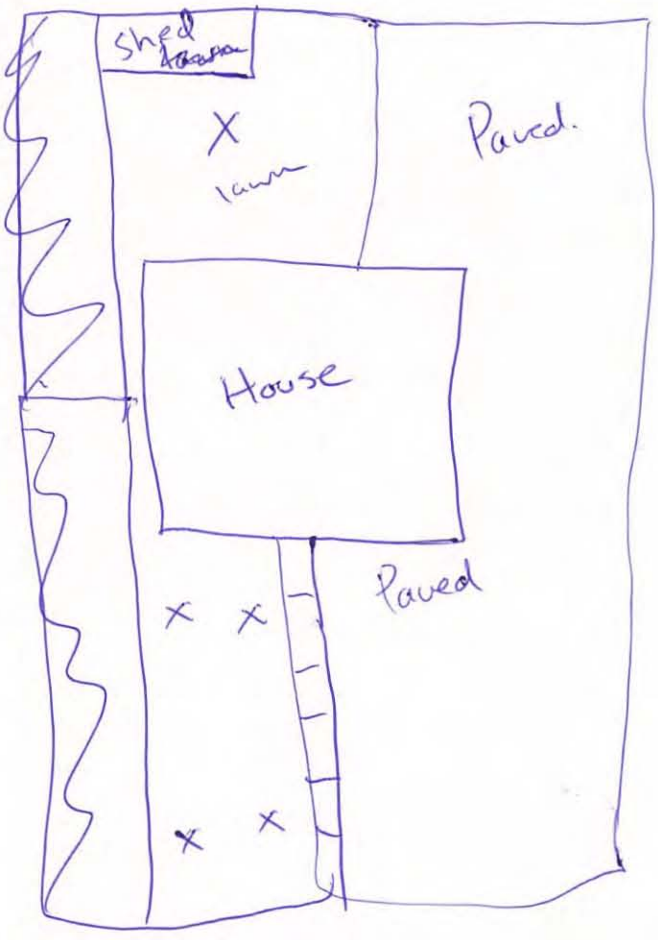
OBTAIN PHOTO-DOCUMENTATION

SS-MEIR-N-08



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PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
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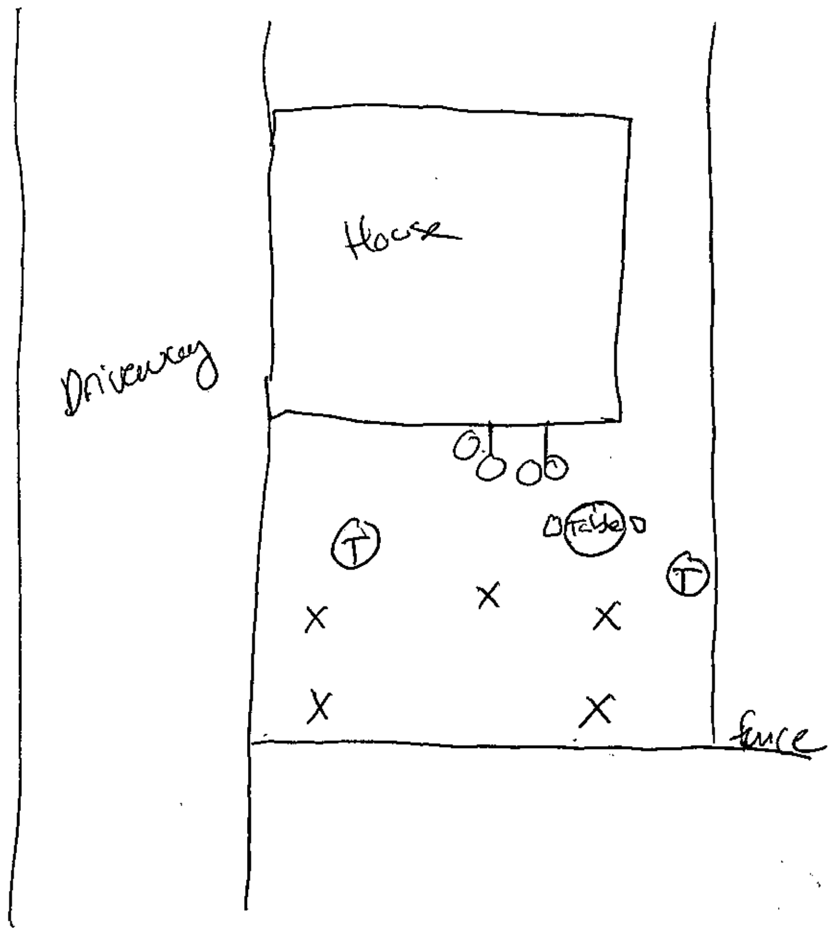
OBTAIN PHOTO-DOCUMENTATION

SS-MGIR-N-09



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CHECKED BY:	PROJECT NUMBER: 2013-3007		
DRAWN BY: KO	DATE:	FIGURE: SK-1	

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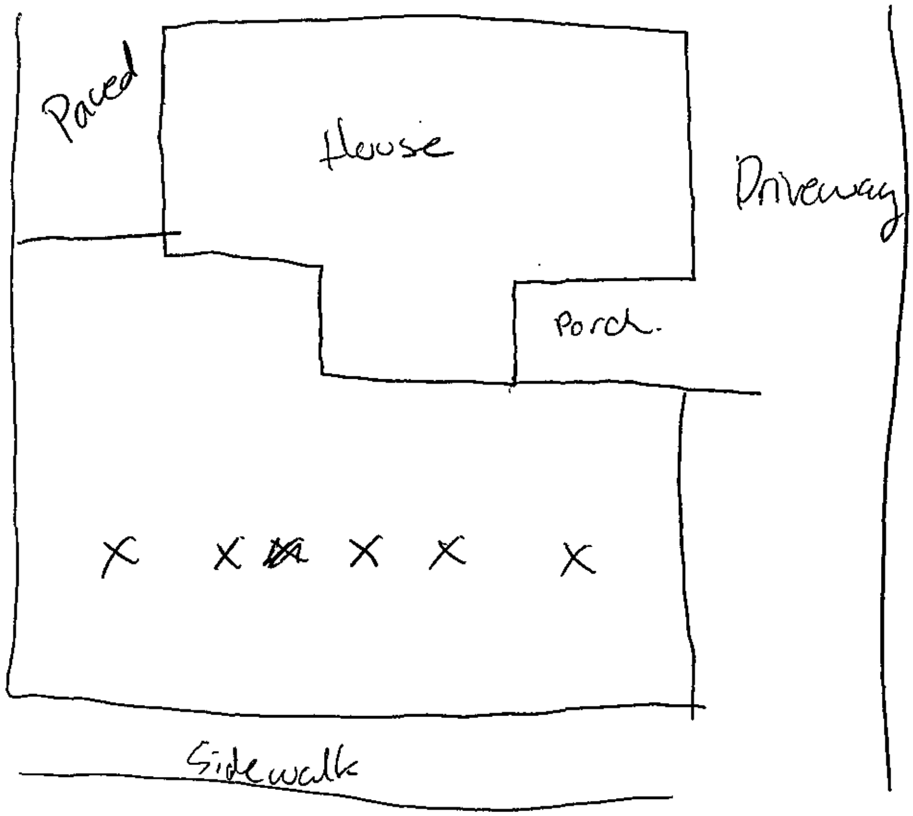
OBTAIN PHOTO-DOCUMENTATION

SS-MER-N-104



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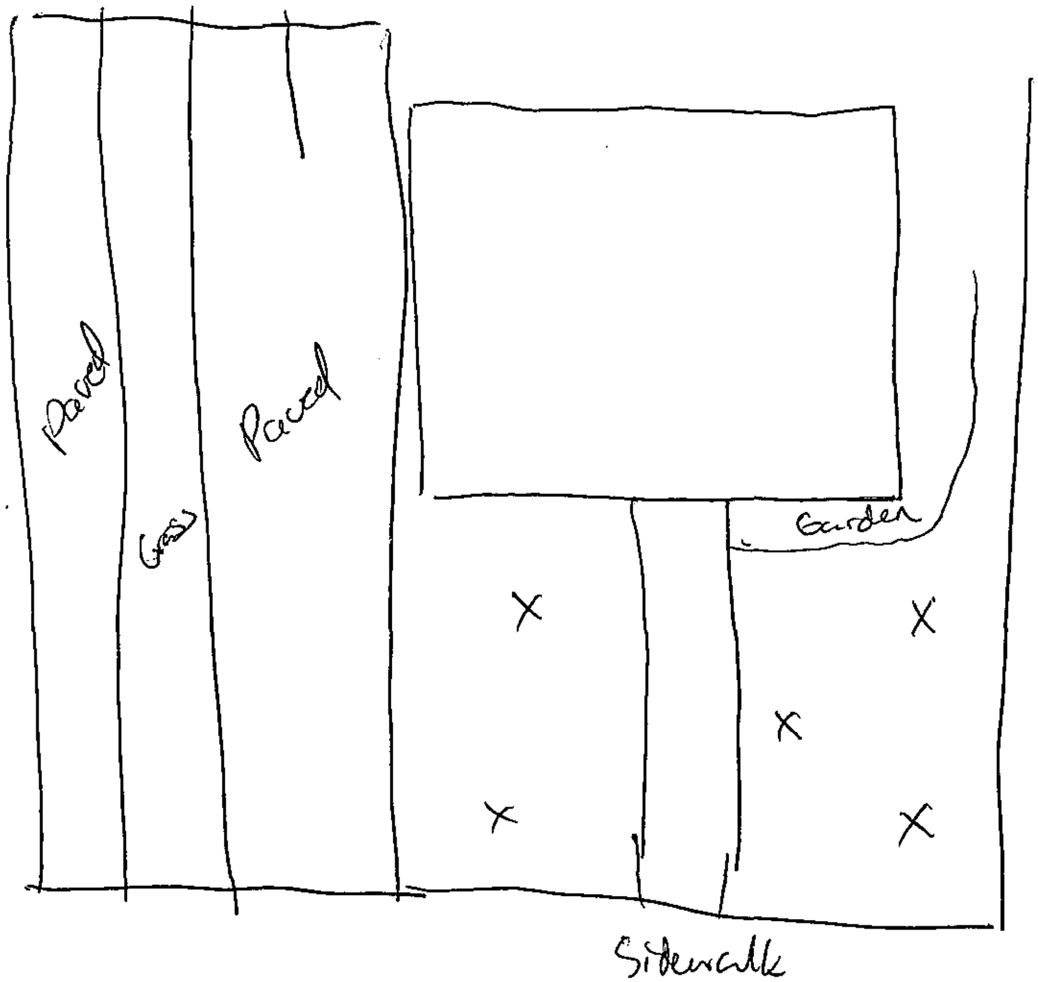
OBTAIN PHOTO-DOCUMENTATION

SS-MG1R-N-11



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PROJECT ENGINEER: P.G.S.	SCALE: NTS		
CHECKED BY:	PROJECT NUMBER: 2013-3007		
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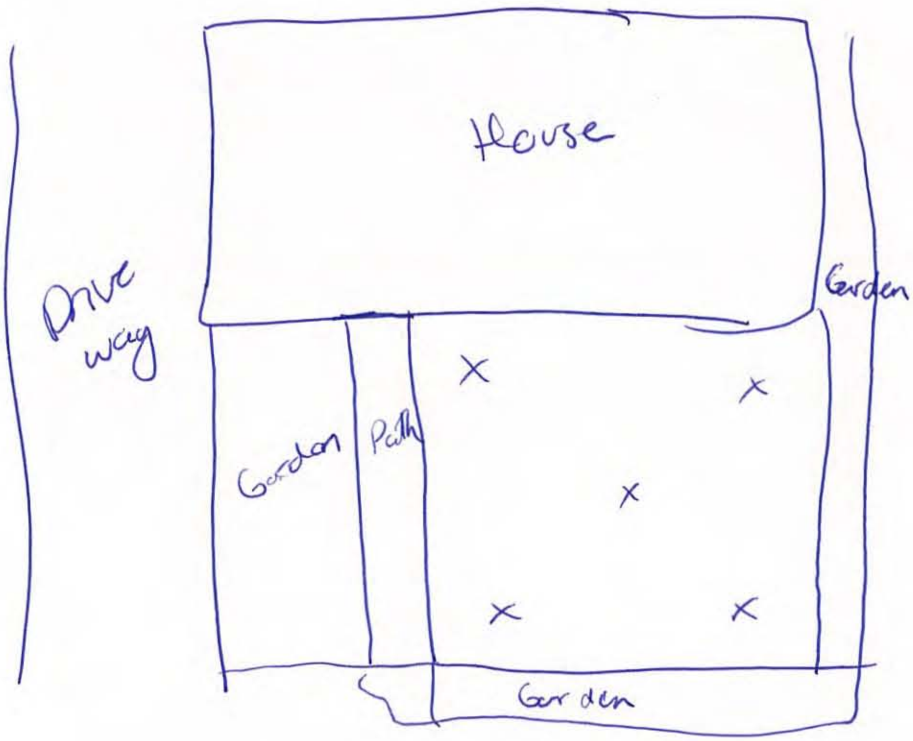
SS-MG1R-N-12



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VERNON, CALIFORNIA

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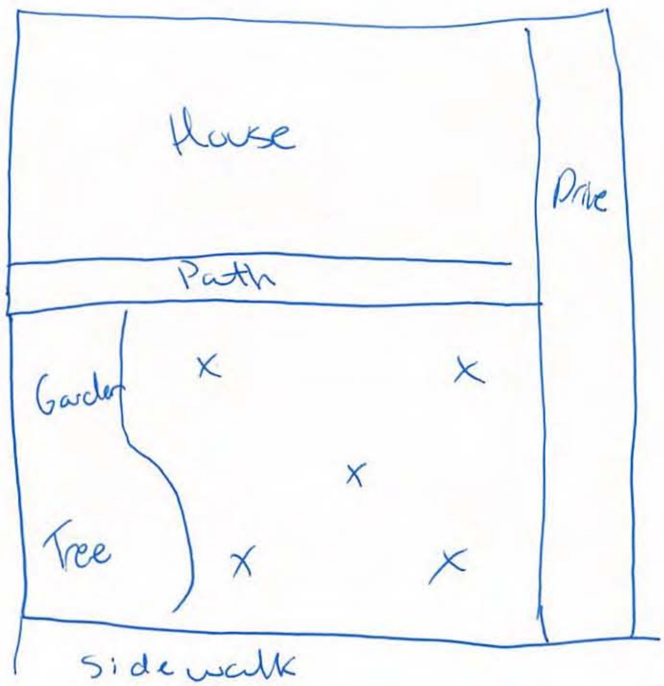
- PAINTED STRUCTURES
- PAVED/PATIO AREAS
- DRIVEWAY/PARKING AREAS
- GRASSY AREAS
- BARE SOIL AREAS
- PLAY AREAS
- STREET/SIDEWALK LOCATION
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-Meir-W-13



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EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

PROJECT ENGINEER:	P.G.S.	SCALE:	NTS
CHECKED BY:		PROJECT NUMBER:	2013-3007
DRAWN BY:	KO	DATE:	FIGURE: SK-1

INCLUDE THE FOLLOWING ON SKETCH AS APPLICABLE:

- SAMPLE LOCATIONS
- PAINTED STRUCTURES
- PAVED/PATIO AREAS
- DRIVEWAY/PARKING AREAS
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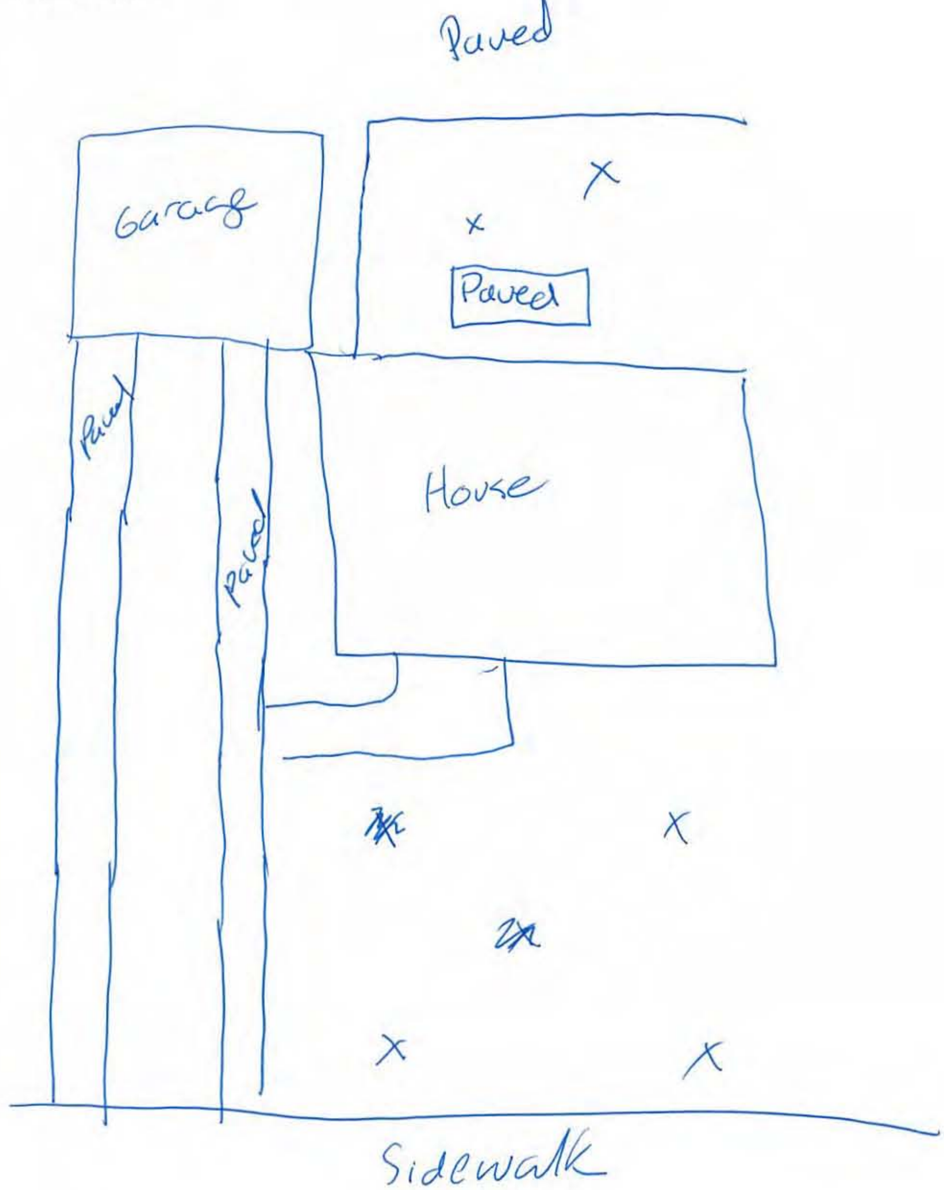
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MGIR-N-14



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PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

INCLUDE THE FOLLOWING ON SKETCH AS APPLICABLE:

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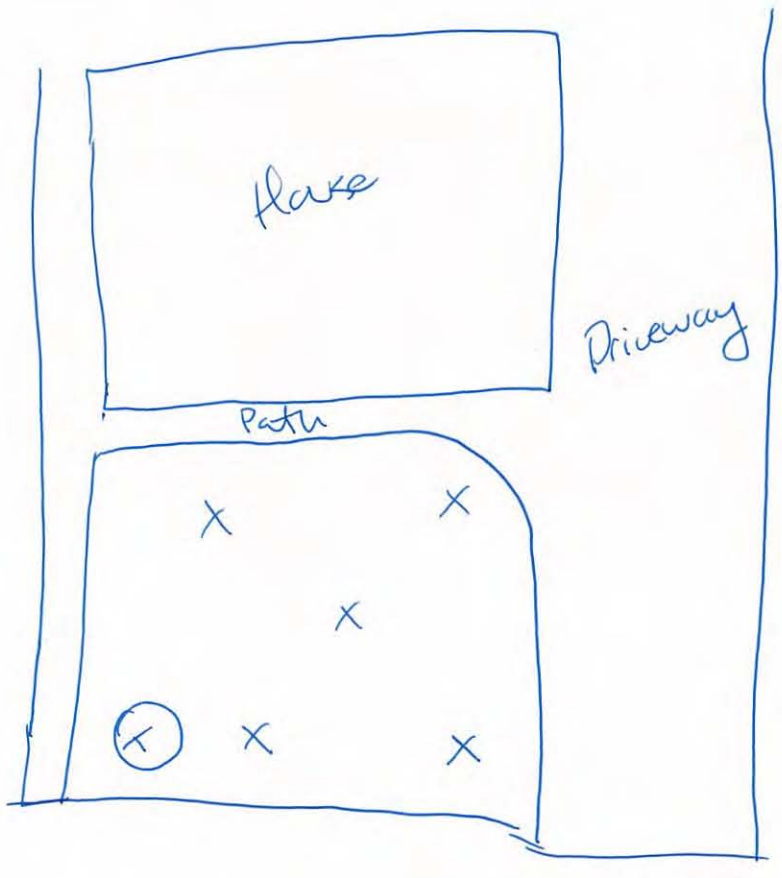
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO–DOCUMENTATION

SS-MGIR-N-15 t



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	PROJECT ENGINEER: P.G.S.	SCALE:	NTS
	CHECKED BY:	PROJECT NUMBER:	2013–3007
	DRAWN BY: KO	DATE:	FIGURE: SK–1

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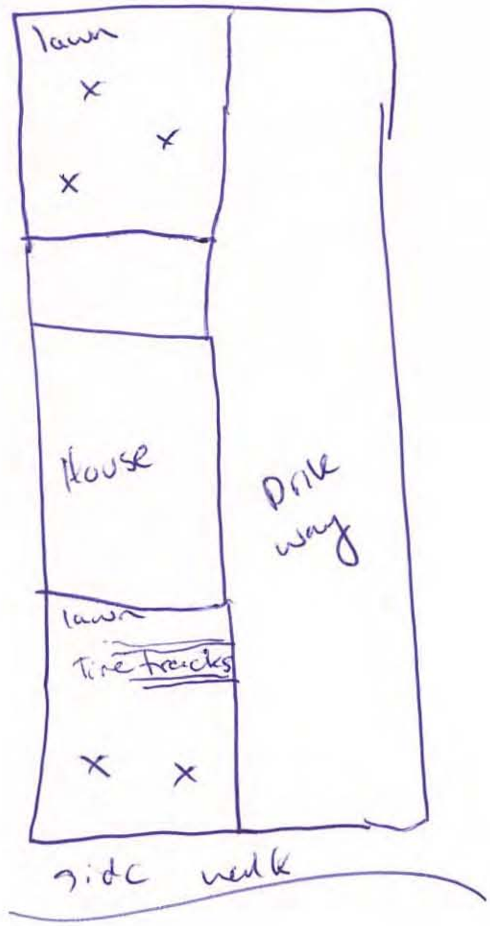
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MEIR-N-16

+ Duplicate.



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PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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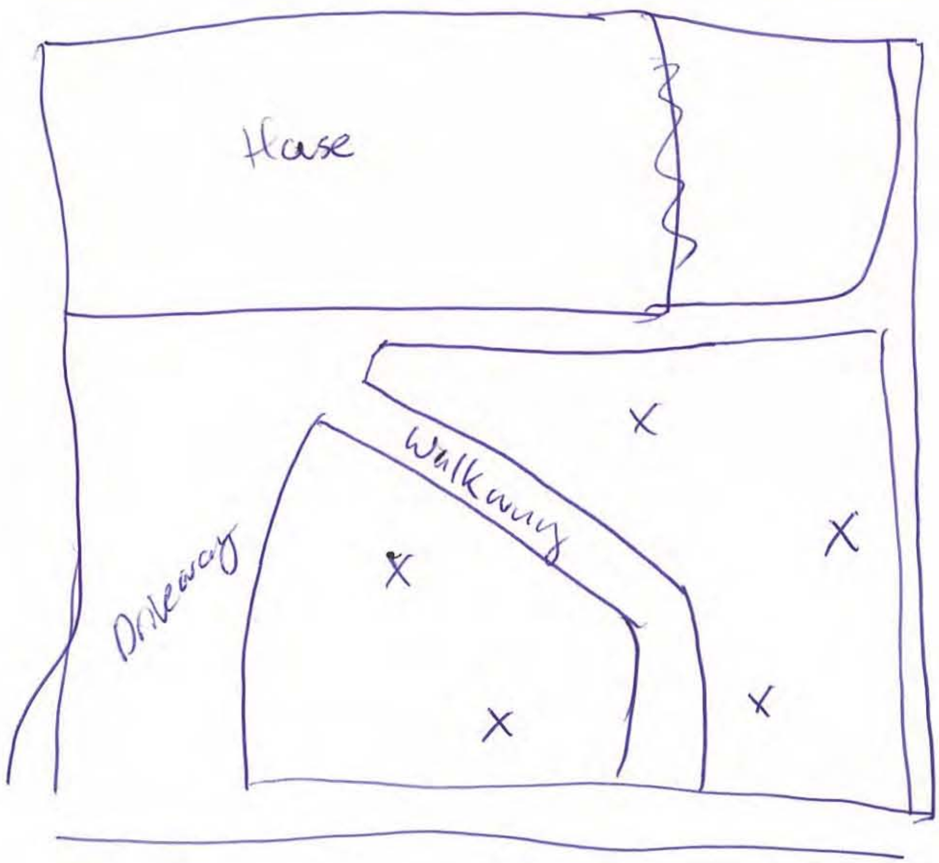
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO–DOCUMENTATION

SS-MEIR-N-17



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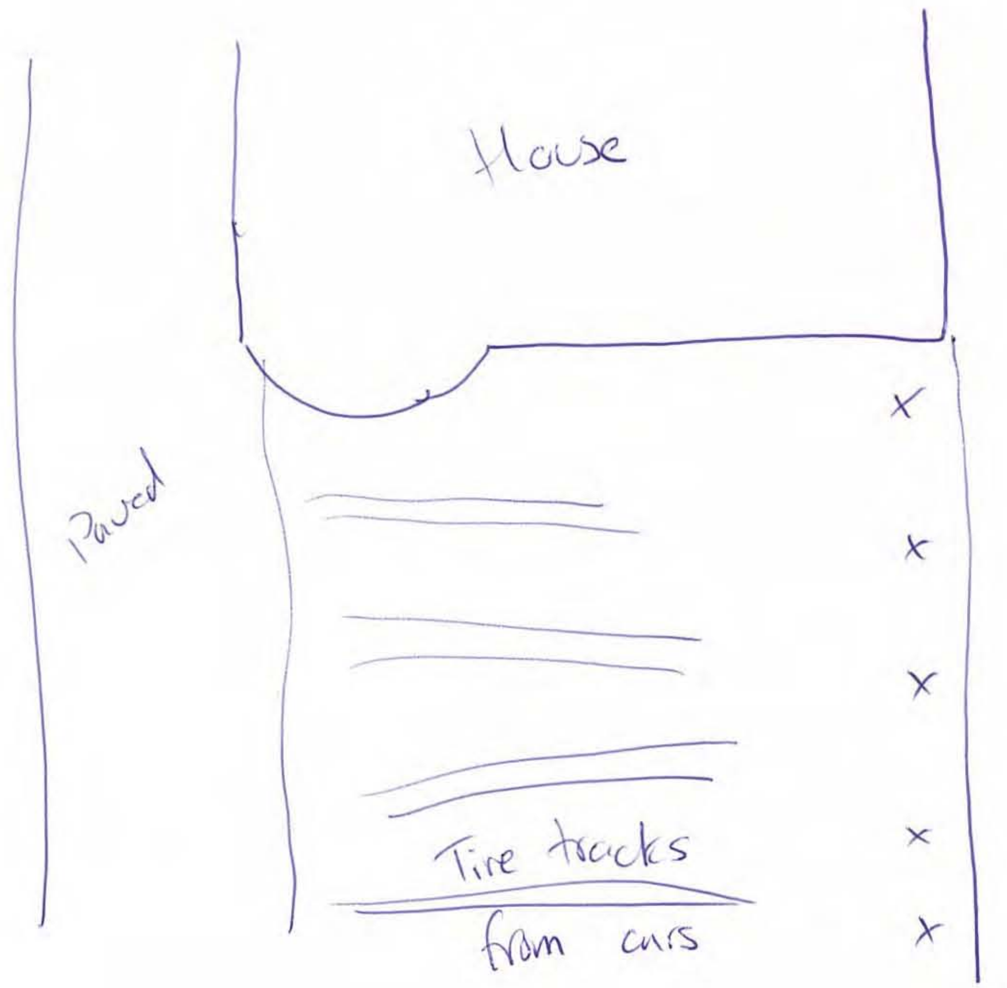
OBTAIN PHOTO-DOCUMENTATION

SS-MGR-N-18



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CHECKED BY:		PROJECT NUMBER:	2013-3007
DRAWN BY:	KO	DATE:	FIGURE: SK-1

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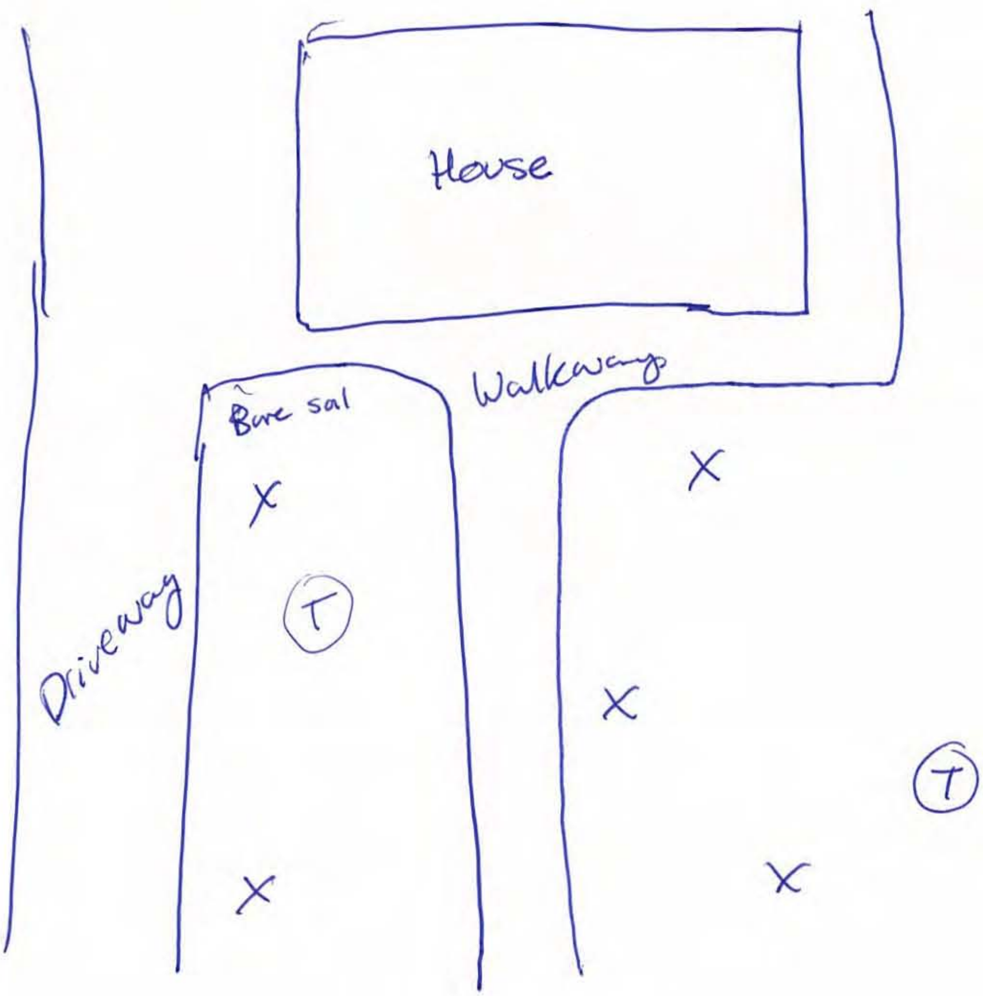
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO–DOCUMENTATION

SS-MGR-N-19



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CHECKED BY:	PROJECT NUMBER:	2013–3007	
DRAWN BY: KO	DATE:	FIGURE:	SK–1

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OBTAIN PHOTO-DOCUMENTATION

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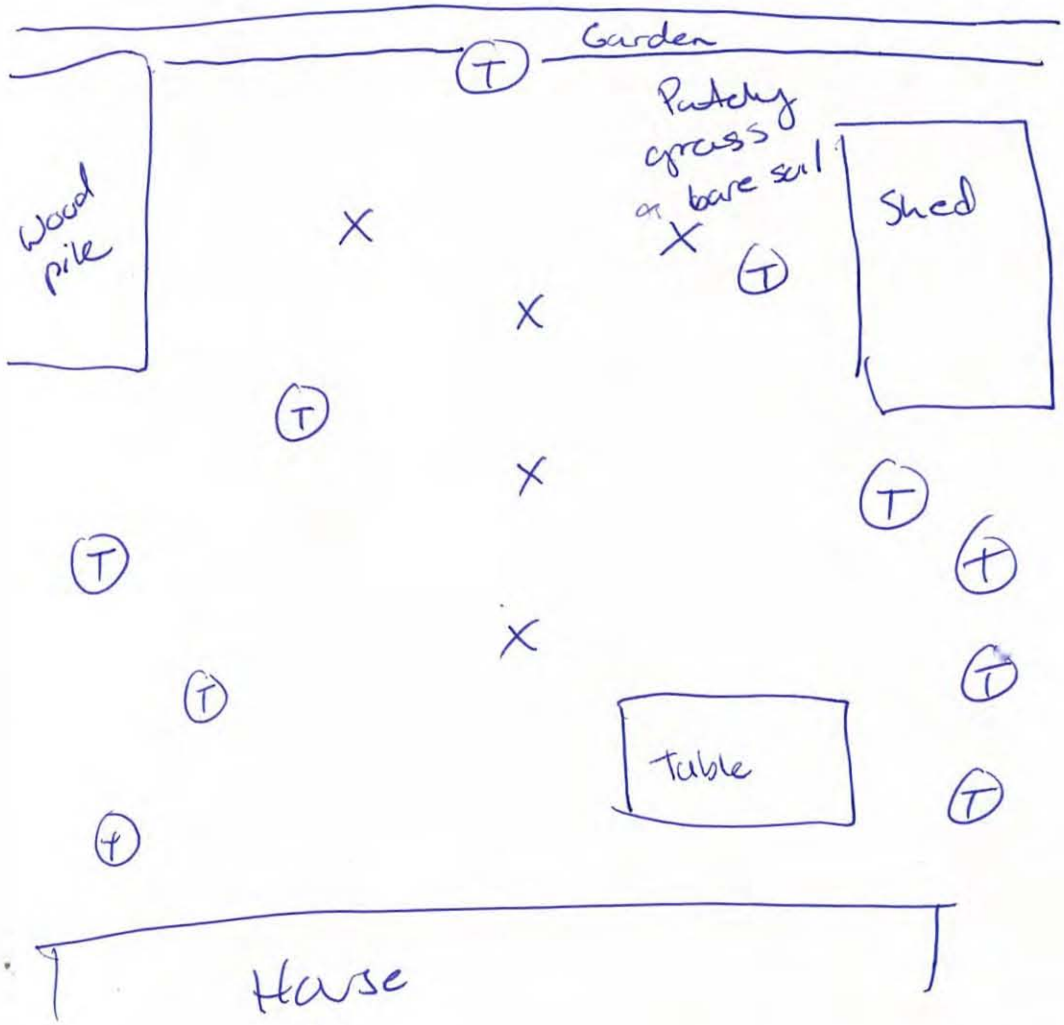
(backyard only)



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CHECKED BY:		PROJECT NUMBER:	2013-3007
DRAWN BY:	KO	DATE:	FIGURE: SK-1

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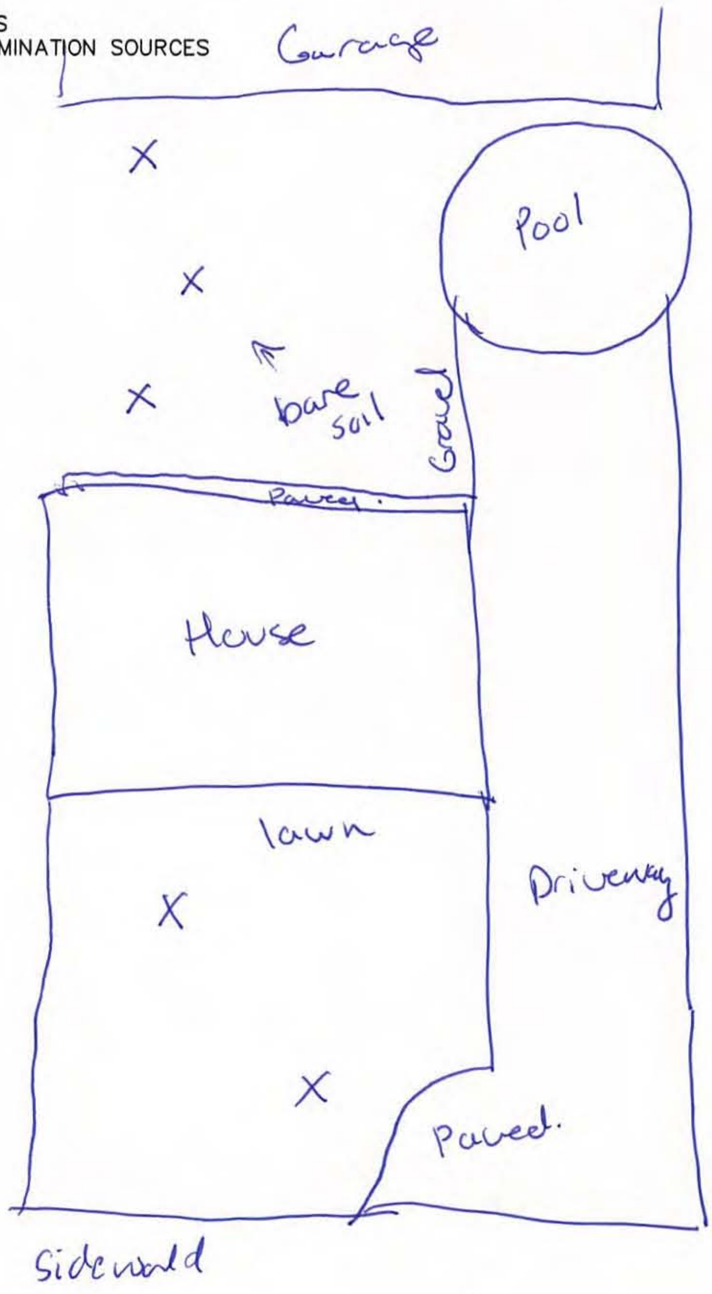
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS - MEIR - S - 02



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CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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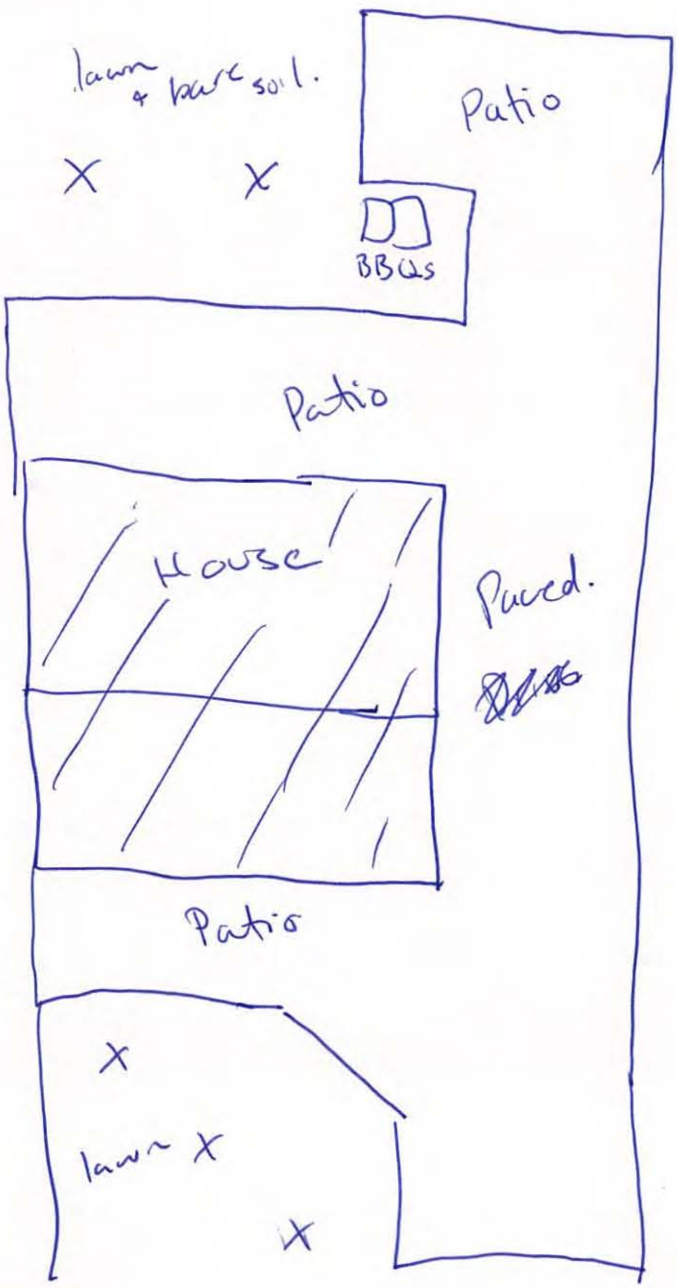
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MGR-S03



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CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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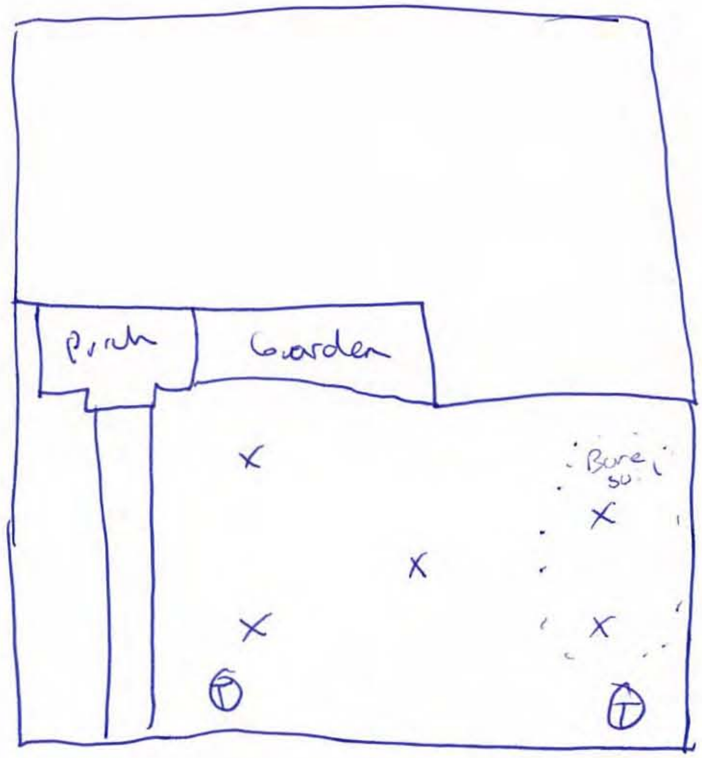
OBTAIN PHOTO-DOCUMENTATION

SS-MGIR-S-04



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CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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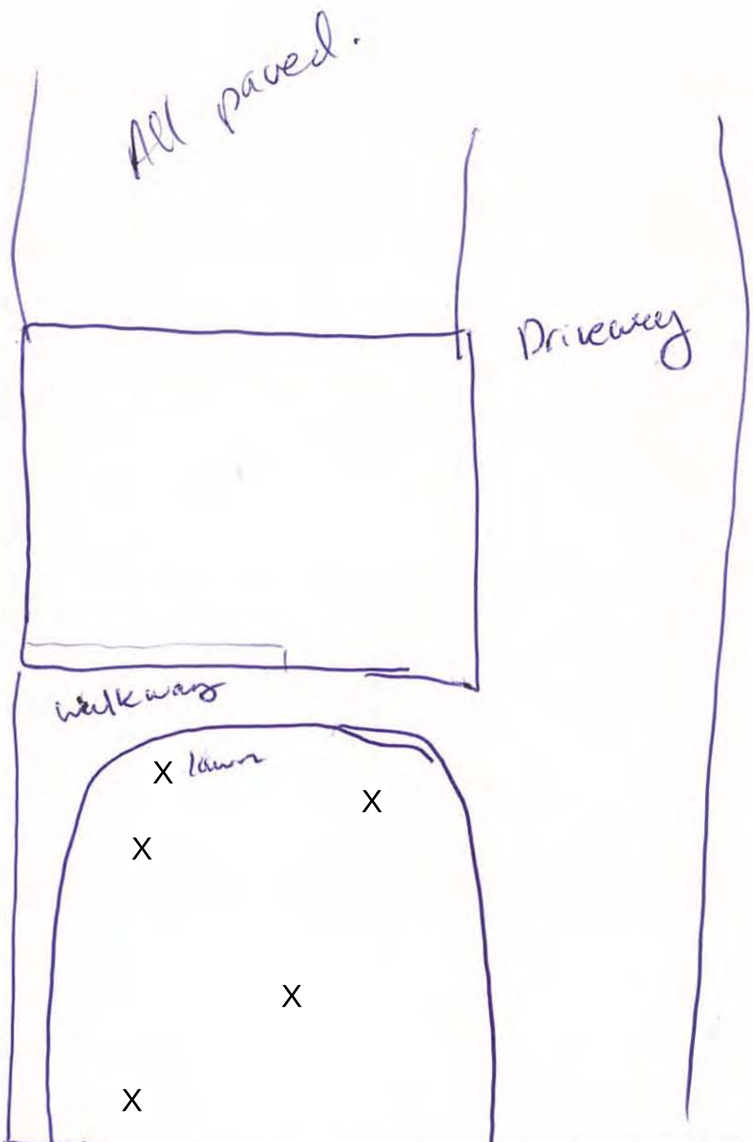
OBTAIN PHOTO–DOCUMENTATION

SS-MEIR-S-05



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PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013–3007	
DRAWN BY: KO	DATE:	FIGURE:	SK–1

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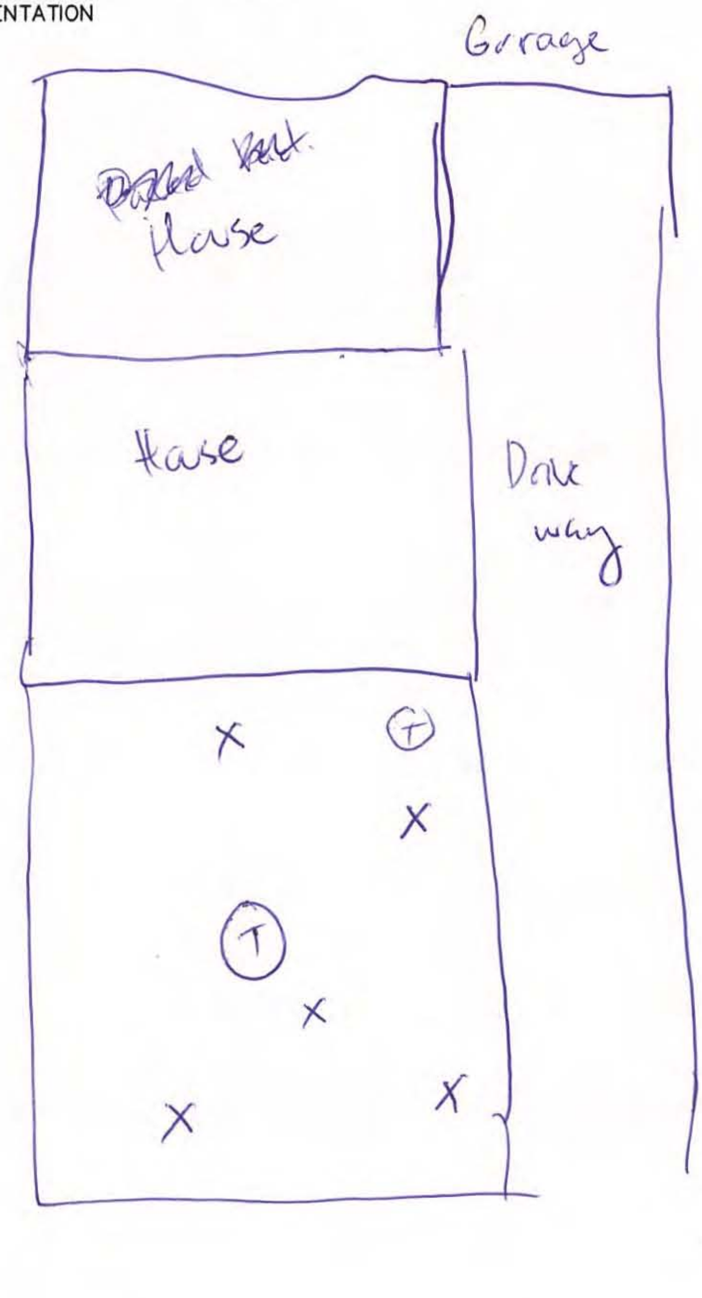
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MGIR-5-06



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VERNON, CALIFORNIA

PROJECT ENGINEER:	P.G.S.	SCALE:	NTS
CHECKED BY:		PROJECT NUMBER:	2013-3007
DRAWN BY:	KO	DATE:	FIGURE: SK-1

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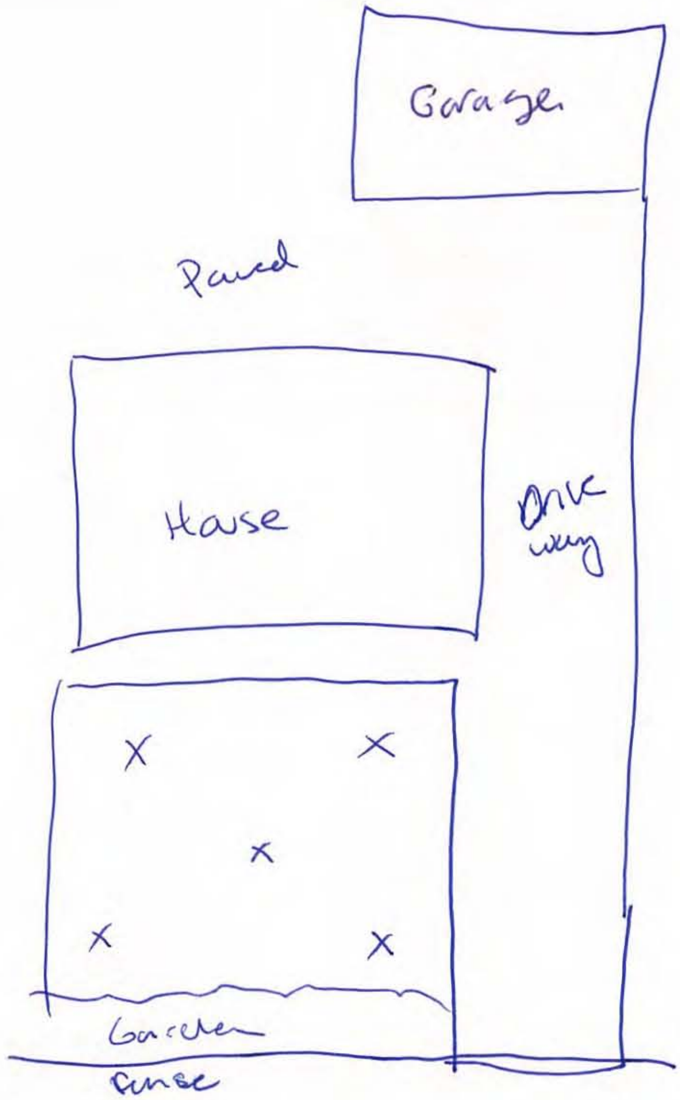
OBTAIN PHOTO-DOCUMENTATION

SS-MGIR-S -07



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VERNON, CALIFORNIA

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CHECKED BY:		PROJECT NUMBER:	2013-3007
DRAWN BY:	KO	DATE:	FIGURE: SK-1

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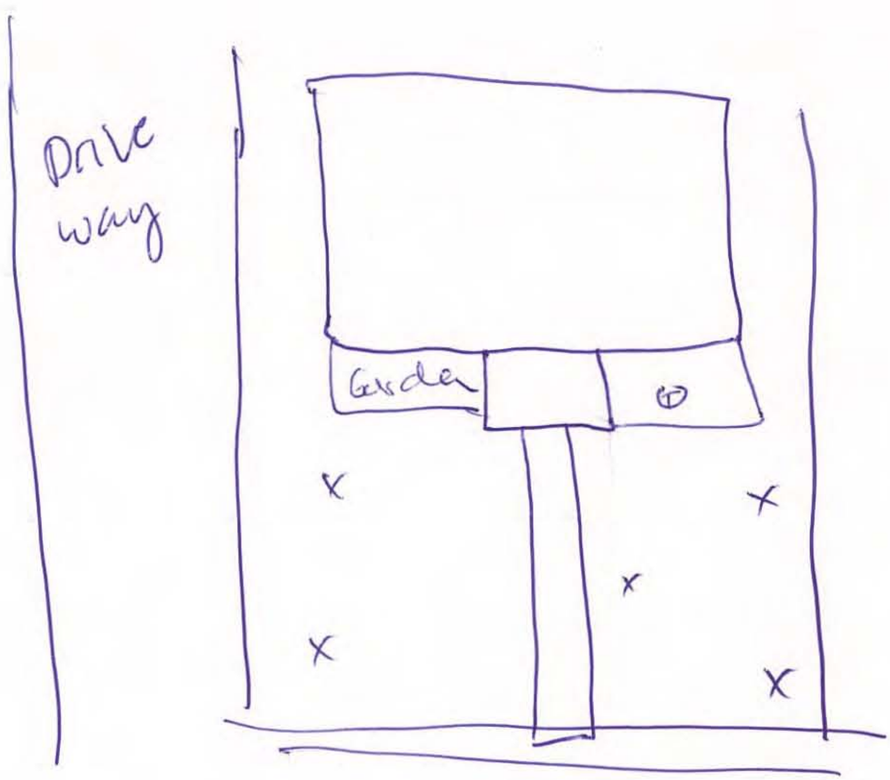
OBTAIN PHOTO-DOCUMENTATION

SS-MGR-S-08



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VERNON, CALIFORNIA

PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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OBTAIN PHOTO–DOCUMENTATION

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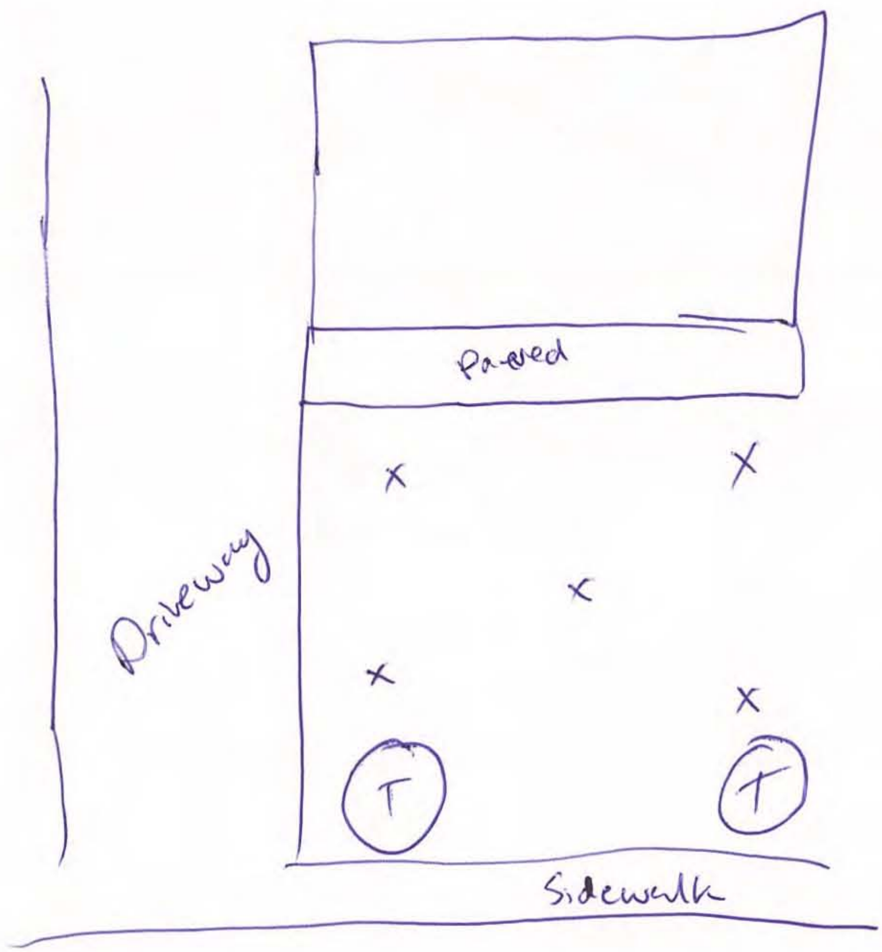

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	PROJECT ENGINEER: P.G.S.	SCALE:	NTS
	CHECKED BY:	PROJECT NUMBER:	2013–3007
	DRAWN BY: KO	DATE:	FIGURE: SK–1

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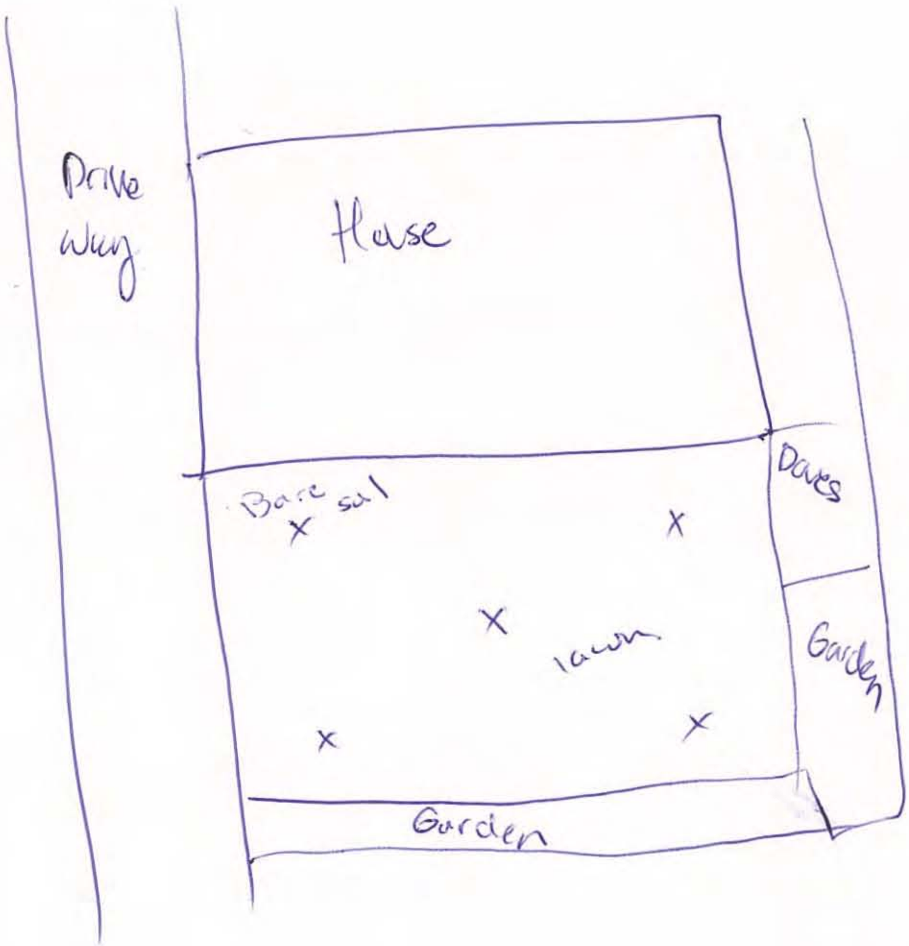
OBTAIN PHOTO-DOCUMENTATION

SS-MEIR-S-10



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CHECKED BY:	PROJECT NUMBER:	2013-3007	
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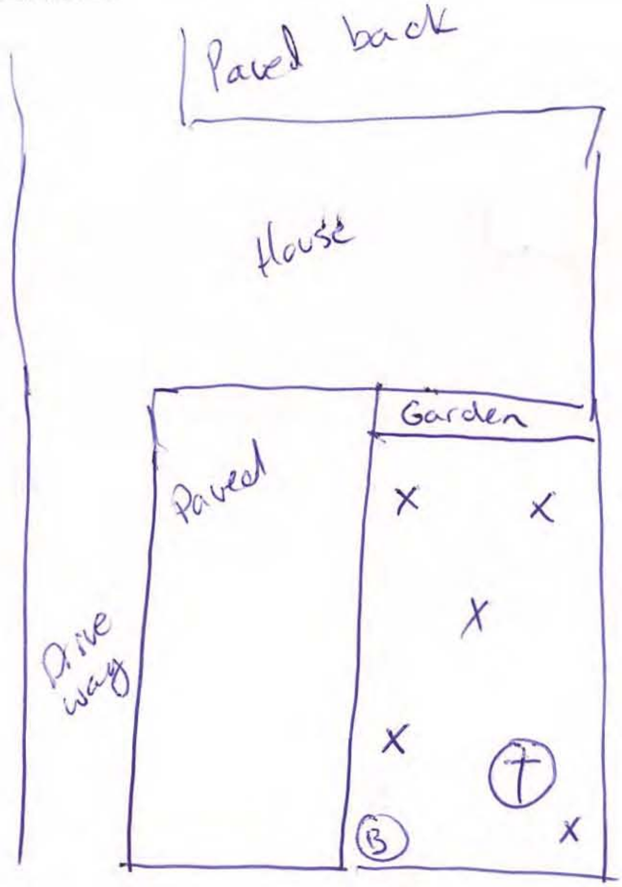
SS-MEIR-S-11

OBTAIN PHOTO-DOCUMENTATION



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CHECKED BY:	PROJECT NUMBER:	2013-3007	
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OBTAIN PHOTO–DOCUMENTATION

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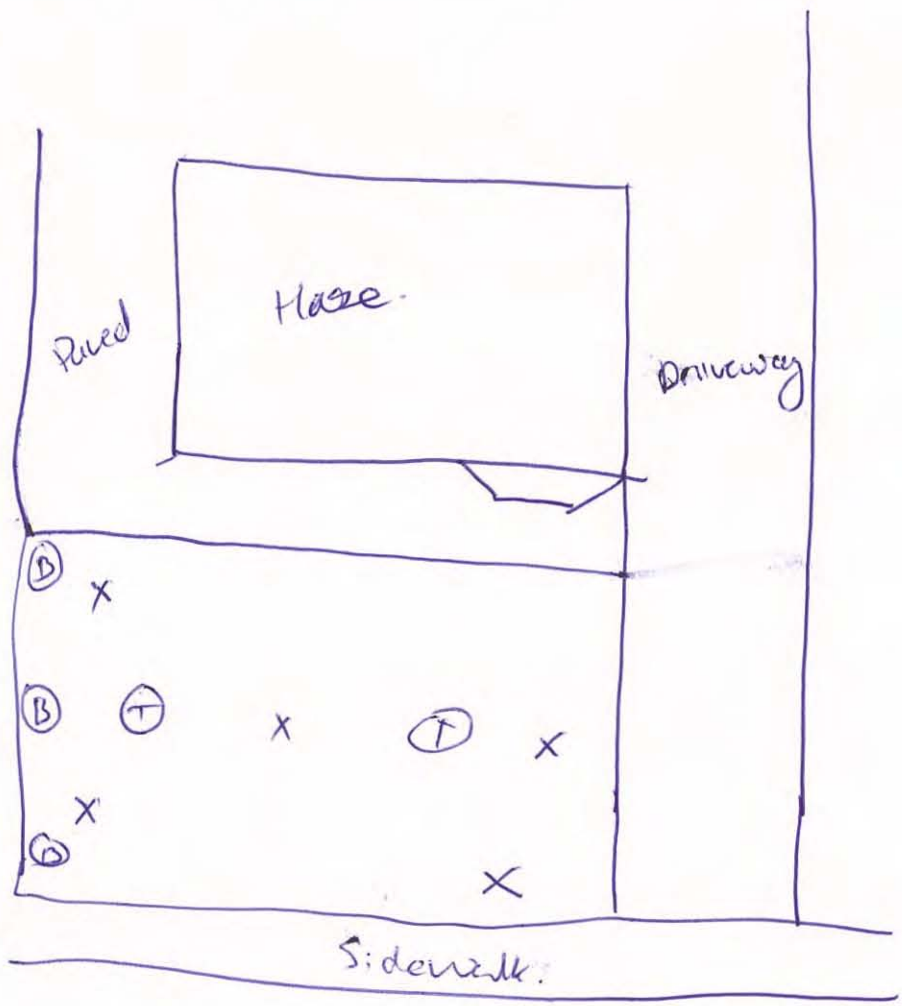

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CHECKED BY:	PROJECT NUMBER:	2013–3007	
DRAWN BY: KO	DATE:	FIGURE:	SK–1

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OBTAIN PHOTO-DOCUMENTATION

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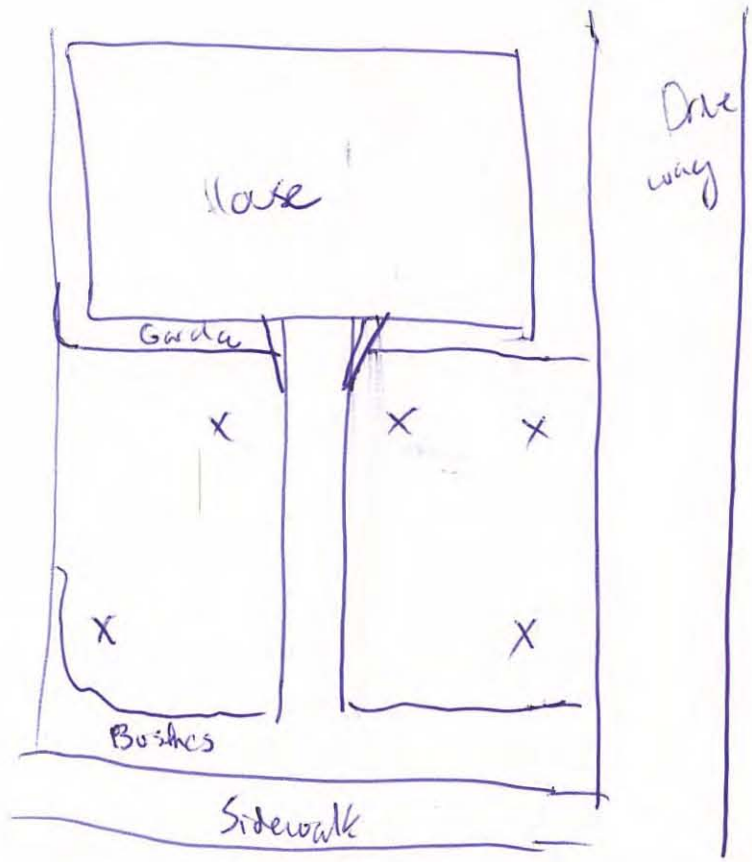

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RESIDENTIAL OFF-SITE PROPERTY SKETCH

EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

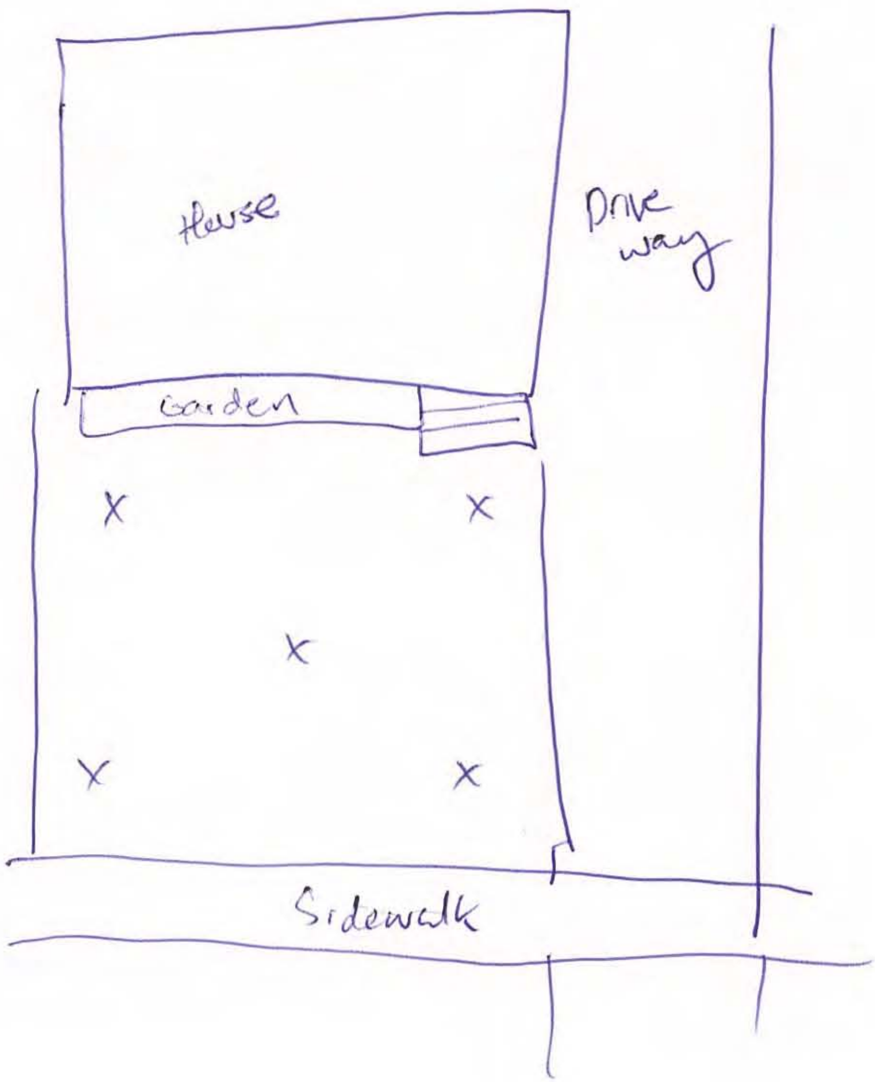
PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

INCLUDE THE FOLLOWING ON SKETCH AS APPLICABLE:

- SAMPLE LOCATIONS
- PAINTED STRUCTURES
- PAVED/PATIO AREAS
- DRIVEWAY/PARKING AREAS
- GRASSY AREAS
- BARE SOIL AREAS
- PLAY AREAS
- STREET/SIDEWALK LOCATION
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO–DOCUMENTATION

SS-MGIR-S-14



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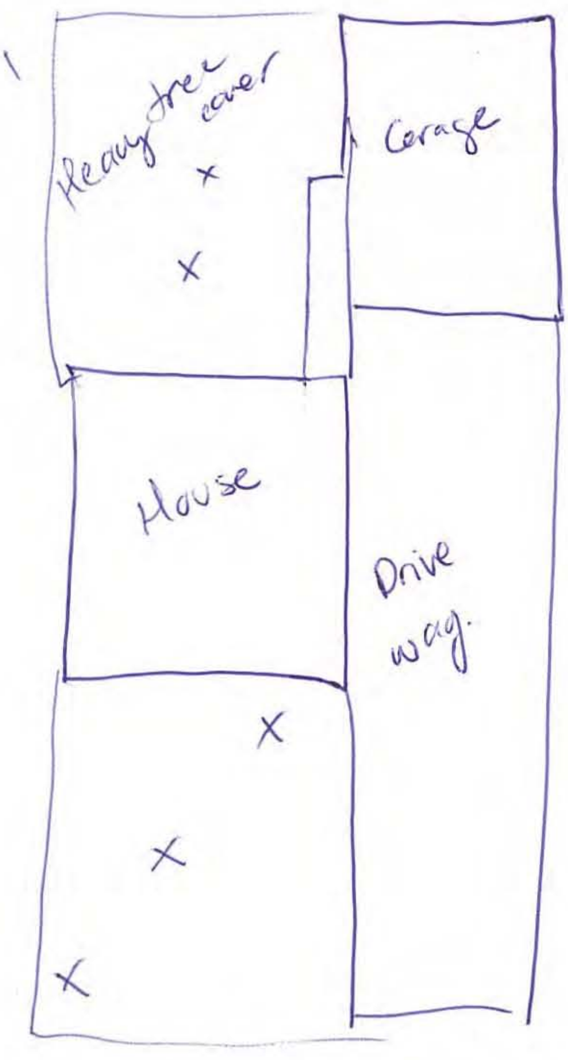
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MGR-S-15



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PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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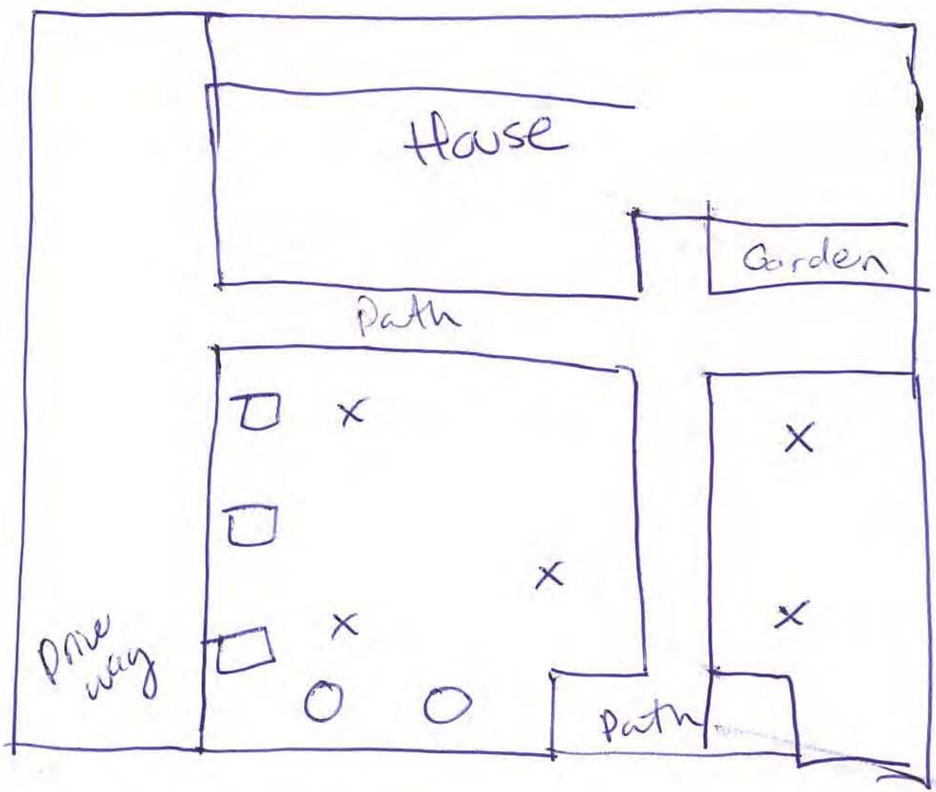
- STREET/SIDEWALK LOCATION
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO–DOCUMENTATION

SS-MEIR-S-16



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EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013–3007	
DRAWN BY: KO	DATE:	FIGURE:	SK–1

INCLUDE THE FOLLOWING ON SKETCH AS APPLICABLE:

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- PAINTED STRUCTURES
- PAVED/PATIO AREAS
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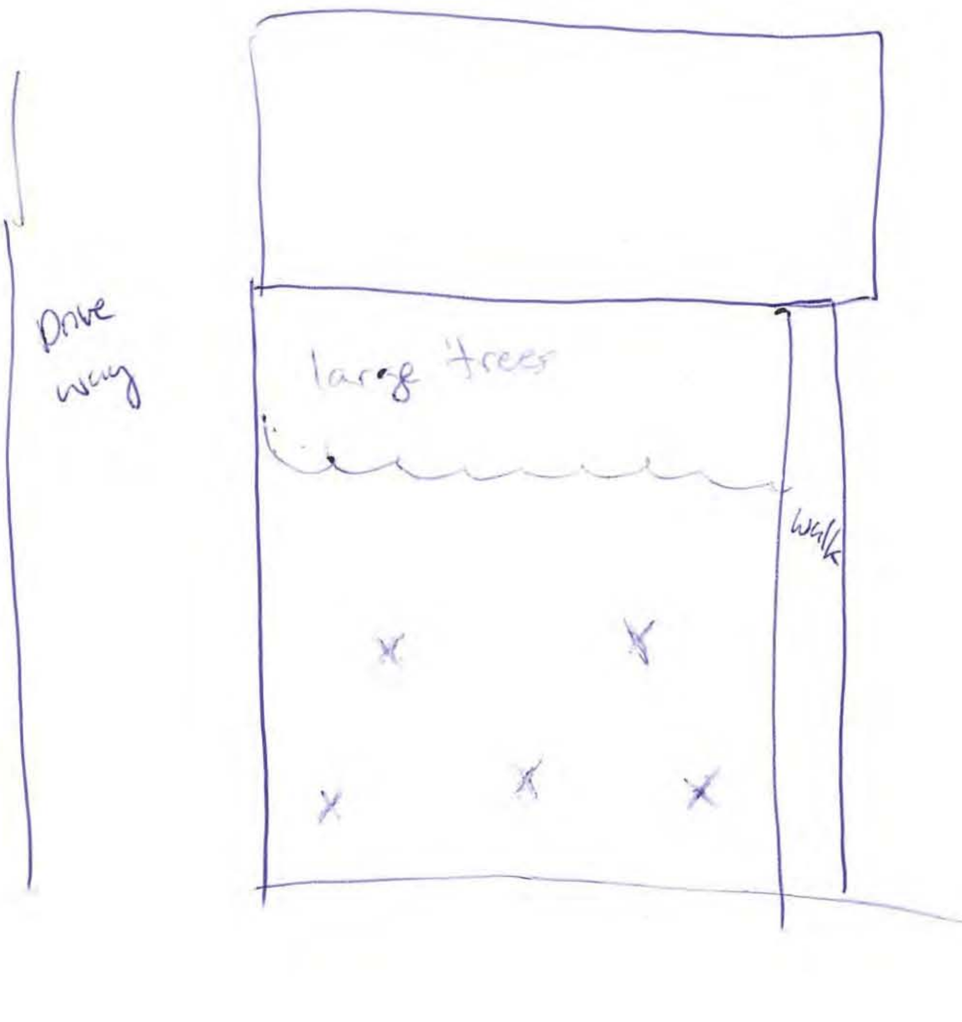
- GRASSY AREAS
- BARE SOIL AREAS
- PLAY AREAS
- STREET/SIDEWALK LOCATION
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MGR-S-17



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PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

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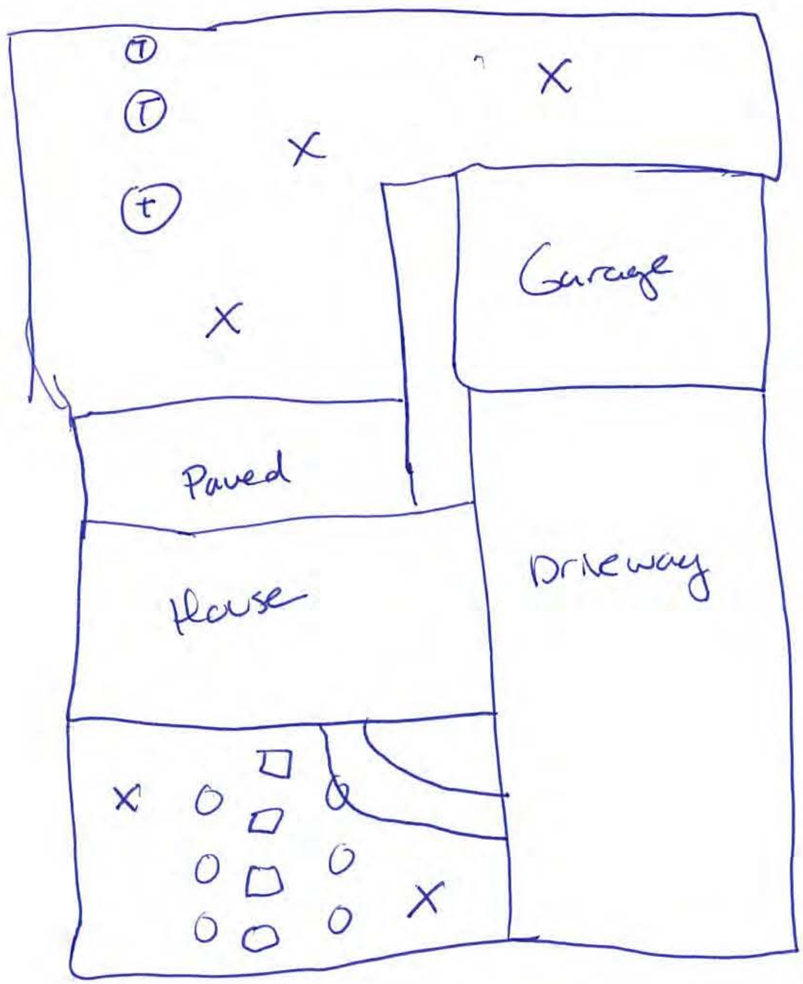
- STREET/SIDEWALK LOCATION
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MEIR-18



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EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

INCLUDE THE FOLLOWING ON SKETCH AS APPLICABLE:

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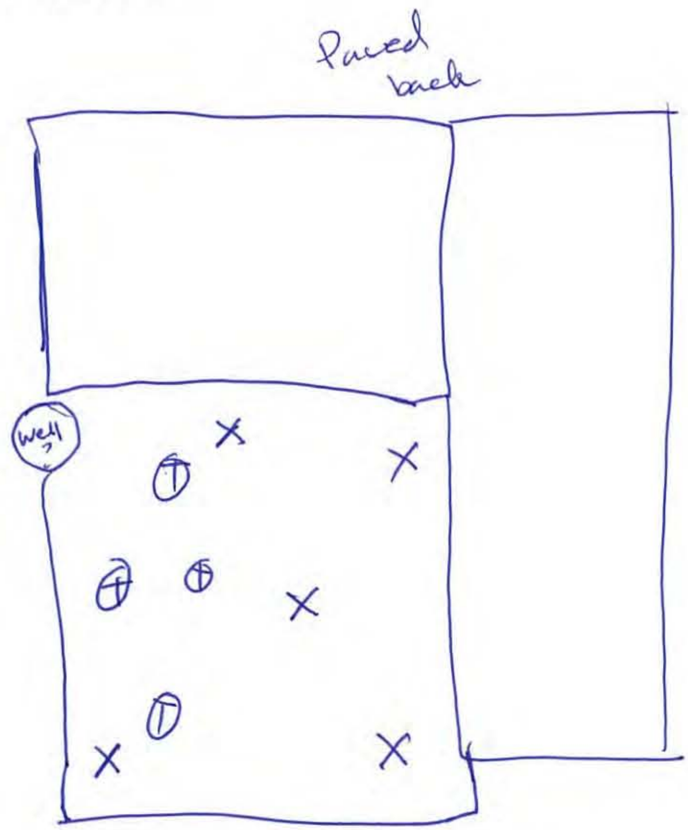
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MGIR-S-19



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EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

INCLUDE THE FOLLOWING ON SKETCH AS APPLICABLE:

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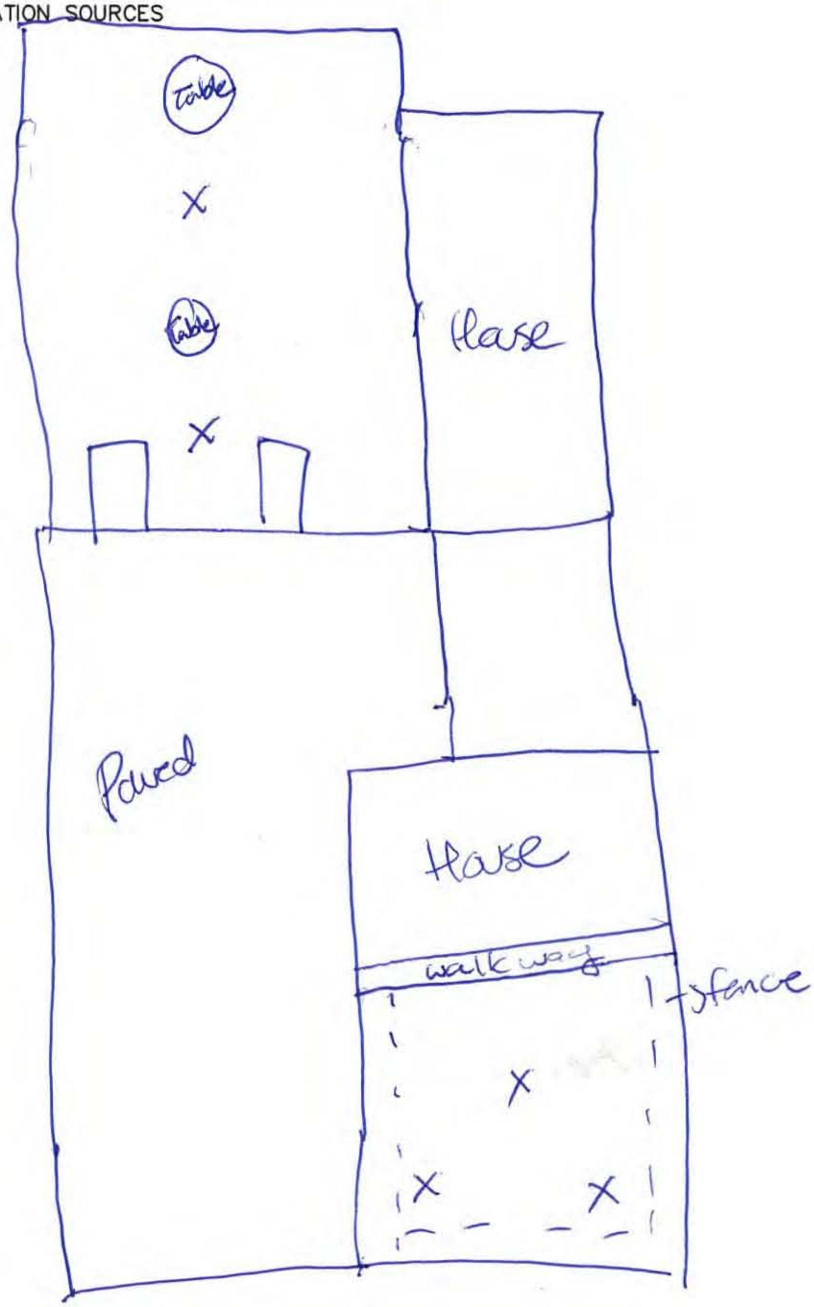
- PLAY AREAS
- STREET/SIDEWALK LOCATION
- RECENTLY DISTURBED AREAS
- STORMWATER DRAINAGE AREAS
- ADDITIONAL POTENTIAL CONTAMINATION SOURCES

OBTAIN PHOTO-DOCUMENTATION

SS-MGR-S-21



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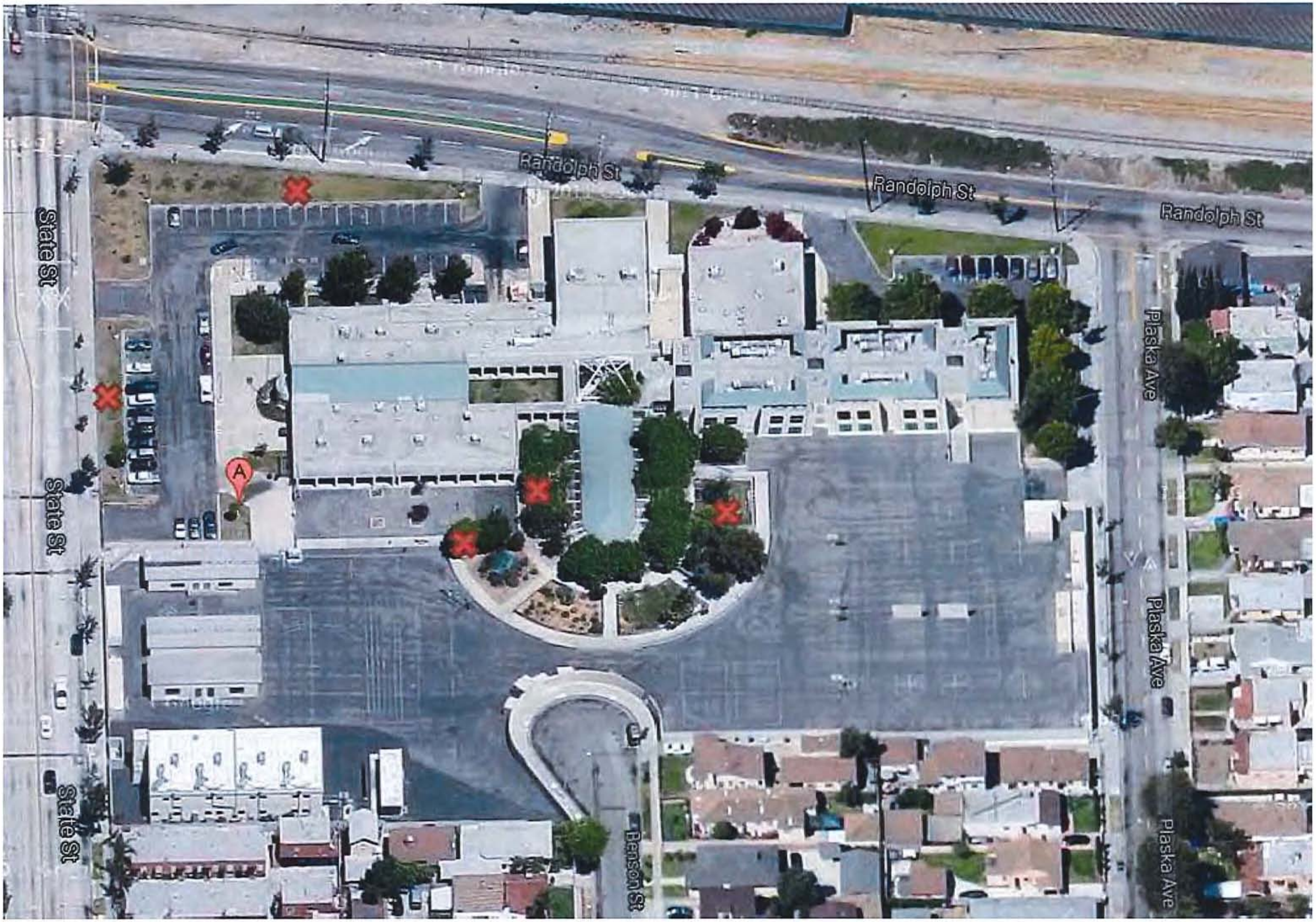
EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

PROJECT ENGINEER: P.G.S.	SCALE:	NTS	
CHECKED BY:	PROJECT NUMBER:	2013-3007	
DRAWN BY: KO	DATE:	FIGURE:	SK-1

SAMPLE LOCATIONS
FOR
NORTHERN SCHOOL



SAMPLE LOCATIONS
FOR
SOUTHERN SCHOOL

APPENDIX C

Sample Results and Laboratory Data Packages

TABLES

TABLE C-1
EXIDE VERNON
Off-Site Soil Sampling
Background Area 0-1" Sample Results

Sample Location		SS-BG-01-1			SS-BG-02-1			SS-BG-03-1			SS-BG-04-1		
Lab ID		13-11-1195-1			13-11-1195-4			13-11-1195-7			13-11-1195-10		
Sample Date		11/14/2013			11/14/2013			11/14/2013			11/14/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		0-1"			0-1"			0-1"			0-1"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles													
1-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02
2-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02
Acenaphthene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02
Acenaphthylene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02
Anthracene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02
Benzo (a) Anthracene	mg/kg	0.061		0.04	0.04		0.02	0.038		0.02	0.066		0.02
Benzo (a) Pyrene	mg/kg	0.086		0.04	0.053		0.02	0.048		0.02	0.098		0.02
Benzo (b) Fluoranthene	mg/kg	0.1		0.04	0.043		0.02	0.065		0.02	0.075		0.02
Benzo (g,h,i) Perylene	mg/kg	0.1		0.04	0.047		0.02	0.049		0.02	0.086		0.02
Benzo (k) Fluoranthene	mg/kg	0.062		0.04	0.036		0.02	0.04		0.02	0.06		0.02
Chrysene	mg/kg	0.13		0.04	0.069		0.02	0.11		0.02	0.11		0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.04		U	0.02		U	0.02	0.03		0.02
Fluoranthene	mg/kg	0.14		0.04	0.064		0.02	0.17		0.02	0.091		0.02
Fluorene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.062		0.04	0.031		0.02	0.031		0.02	0.055		0.02
Naphthalene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02
Phenanthrene	mg/kg	0.067		0.04	0.042		0.02	0.095		0.02	0.04		0.02
Pyrene	mg/kg	0.11		0.04	0.073		0.02	0.14		0.02	0.11		0.02
PCBs													
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50	100		50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50
Total Metals													
Antimony	mg/kg		U	2		U	2		U	2		U	2
Arsenic	mg/kg	3.64		1	2.92		1	2.35		1	5.92		1
Cadmium	mg/kg	1.39		1		U	1		U	1		U	1
Chromium	mg/kg	20.3		2	18.7		2	21.1		2	25.4		2
Lead	mg/kg	61.7		1	54.2		1	58.1		1	68.7		1
Sieved Metals													
Antimony	mg/kg		NA			NA			NA			NA	
Arsenic	mg/kg		NA			NA			NA			NA	
Cadmium	mg/kg		NA			NA			NA			NA	
Chromium	mg/kg		NA			NA			NA			NA	
Lead	mg/kg		NA			NA			NA			NA	

Sample Location		SS-BG-05-1			SS-BG-06-1			SS-BG-07-1			SS-BG-08-1		
Lab ID		13-11-1195-13			13-11-1195-16			13-11-1340-1 / 13-11-1340-22			13-11-1340-4 / 13-11-1340-24		
Sample Date		11/14/2013			11/14/2013			11/15/2013			11/15/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		0-1"			0-1"			0-1"			0-1"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles													
1-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
2-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Acenaphthene	mg/kg		U	0.04	0.025		0.02		U	0.04		U	0.04
Acenaphthylene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Anthracene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Benzo (a) Anthracene	mg/kg	0.09		0.04	0.035		0.02		U	0.04		U	0.04
Benzo (a) Pyrene	mg/kg	0.12		0.04	0.048		0.02		U	0.04	0.045		0.04
Benzo (b) Fluoranthene	mg/kg	0.11		0.04	0.056		0.02		U	0.04	0.045		0.04
Benzo (g,h,i) Perylene	mg/kg	0.13		0.04	0.056		0.02	0.045		0.04	0.056		0.04
Benzo (k) Fluoranthene	mg/kg	0.096		0.04	0.03		0.02		U	0.04		U	0.04
Chrysene	mg/kg	0.17		0.04	0.068		0.02	0.049		0.04	0.066		0.04
Dibenz (a,h) Anthracene	mg/kg	0.045		0.04		U	0.02		U	0.04		U	0.04
Fluoranthene	mg/kg	0.17		0.04	0.055		0.02		U	0.04		U	0.04
Fluorene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.084		0.04	0.032		0.02		U	0.04		U	0.04
Naphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Phenanthrene	mg/kg	0.088		0.04	0.028		0.02		U	0.04		U	0.04
Pyrene	mg/kg	0.18		0.04	0.065		0.02	0.043		0.04	0.053		0.04
PCBs													
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50
Total Metals													
Antimony	mg/kg		U	2		U	2		U	2		U	2
Arsenic	mg/kg	3.51		1	4.25		1	5.29		1	7.48		1
Cadmium	mg/kg	1.11		1		U	1		U	1	3.32		1
Chromium	mg/kg	23.4		2	21.5		2	24.3		2	138		2
Lead	mg/kg	121		1	54.8		1	43.9		1	132		1
Sieved Metals													
Antimony	mg/kg		NA			NA			U	2		U	2
Arsenic	mg/kg		NA			NA		5.04		1	7.75		1
Cadmium	mg/kg		NA			NA			U	1	3.14		1
Chromium	mg/kg		NA			NA		24.4		2	142		2
Lead	mg/kg		NA			NA		46.5		1	136		1

Sample Location		SS-BG-09-1			SS-BG-10-1			SS-BG-11-1			SS-BG-12-1		
Lab ID		13-11-1340-7 / 13-11-1340-26			13-11-1340-10 / 13-11-1340-28			13-11-1340-16			13-11-1340-19		
Sample Date		11/15/2013			11/15/2013			11/15/2013			11/15/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		0-1"			0-1"			0-1"			0-1"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles													
1-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
2-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthylene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Benzo (a) Anthracene	mg/kg	0.035		0.02	0.041		0.02		U	0.02		U	0.02
Benzo (a) Pyrene	mg/kg	0.051		0.02	0.055		0.02	0.022		0.02	0.021		0.02
Benzo (b) Fluoranthene	mg/kg	0.053		0.02	0.044		0.02	0.021		0.02		U	0.02
Benzo (g,h,i) Perylene	mg/kg	0.058		0.02	0.056		0.02	0.021		0.02	0.026		0.02
Benzo (k) Fluoranthene	mg/kg	0.033		0.02	0.033		0.02		U	0.02		U	0.02
Chrysene	mg/kg	0.063		0.02	0.067		0.02	0.031		0.02	0.028		0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Fluoranthene	mg/kg	0.05		0.02	0.051		0.02		U	0.02		U	0.02
Fluorene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.035		0.02	0.034		0.02		U	0.02		U	0.02
Naphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Phenanthrene	mg/kg	0.022		0.02	0.023		0.02		U	0.02		U	0.02
Pyrene	mg/kg	0.058		0.02	0.064		0.02	0.023		0.02	0.028		0.02
PCBs													
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg	68		50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50
Total Metals													
Antimony	mg/kg		U	2		U	2		U	2		U	2
Arsenic	mg/kg	4.22		1	3.42		1	8.68		1	2.56		1
Cadmium	mg/kg		U	1		U	1		U	1		U	1
Chromium	mg/kg	19.5		2	19.5		2	19.3		2	20.4		2
Lead	mg/kg	81.1		1	48.3		1	97.5		1	35.8		1
Sieved Metals													
Antimony	mg/kg		U	2		U	2		NA			NA	
Arsenic	mg/kg	3.76		1	3.18		1		NA			NA	
Cadmium	mg/kg		U	1		U	1		NA			NA	
Chromium	mg/kg	21.4		2	30.3		2		NA			NA	
Lead	mg/kg	83.6		1	53.4		1		NA			NA	

TABLE C-1
EXIDE VERNON
Off-Site Soil Sampling
Background Area 0-1" Sample Results

Sample Location		SS-BG-13-1			SS-BG-14-1			SS-BG-15-1			SS-BG-16-1			SS-BG-17-1			SS-BG-18-1			SS-BG-19-1			SS-BG-20-1		
Lab ID		13-11-1369-1			13-11-1369-4			13-11-1369-7			13-11-1369-10			13-11-1369-13			13-11-1369-16			13-11-1369-19			13-11-1340-13		
Sample Date		11/16/2013			11/16/2013			11/16/2013			11/16/2013			11/16/2013			11/16/2013			11/16/2013			11/15/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																									
1-Methylnaphthalene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
2-Methylnaphthalene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Acenaphthene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Acenaphthylene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Anthracene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Benzo (a) Anthracene	mg/kg	0.027		0.02	0.03	J	0.02	0.029		0.02	0.13		0.04	0.037		0.02	0.02		0.02	0.021		0.02	0.05		0.04
Benzo (a) Pyrene	mg/kg	0.048		0.02	0.048	J	0.02	0.037		0.02	0.19		0.04	0.05		0.02	0.026		0.02	0.026		0.02	0.068		0.04
Benzo (b) Fluoranthene	mg/kg	0.038		0.02	0.035	J	0.02	0.039		0.02	0.17		0.04	0.049		0.02	0.026		0.02	0.022		0.02	0.069		0.04
Benzo (g,h,i) Perylene	mg/kg	0.043		0.02	0.051	J	0.02	0.041		0.02	0.19		0.04	0.042		0.02	0.023		0.02	0.026		0.02	0.077		0.04
Benzo (k) Fluoranthene	mg/kg	0.034		0.02	0.027	J	0.02		U	0.02	0.12		0.04	0.028		0.02		U	0.02		U	0.02	0.045		0.04
Chrysene	mg/kg	0.047		0.02	0.049	J	0.02	0.053		0.02	0.22		0.04	0.065		0.02	0.038		0.02	0.036		0.02	0.1		0.04
Dibenz (a,h) Anthracene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Fluoranthene	mg/kg	0.041		0.02	0.068	J	0.02	0.036		0.02	0.21		0.04	0.053		0.02	0.025		0.02	0.025		0.02	0.059		0.04
Fluorene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.027		0.02	0.04	J	0.02	0.023		0.02	0.11		0.04	0.026		0.02		U	0.02		U	0.02	0.045		0.04
Naphthalene	mg/kg		U	0.02	0.15	J	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Phenanthrene	mg/kg		U	0.02	0.061	J	0.02	0.021		0.02	0.067		0.04	0.024		0.02		U	0.02		U	0.02	0.041		0.04
Pyrene	mg/kg	0.079		0.02	0.08	J	0.02	0.049		0.02	0.3		0.04	0.074		0.02	0.031		0.02	0.03		0.02	0.079		0.04
PCBs																									
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																									
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	2.82		1	3.67		1	2.87		1	3.75		1	2.37		1	6.89		1	3.83		1	7.72		1
Cadmium	mg/kg		U	1		U	1		U	1		U	1		U	1		U	1		U	1	3.5		1
Chromium	mg/kg	15.3		2	20.6		2	15.4		2	19		2	15.5		2	19.7		2	19.5		2	146		2
Lead	mg/kg	34.8		1	58.6		1	43.5		1	88.2		1	51.1		1	38		1	29.4		1	138		1
Sieved Metals																									
Antimony	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Arsenic	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Cadmium	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Chromium	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Lead	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	

TABLE C-2
EXIDE VERNON
Off-Site Soil Sampling
Background Area 1-3" Sample Results

Sample Location		SS-BG-01-3			SS-BG-02-3			SS-BG-03-3			SS-BG-04-3		
Lab ID		13-11-1195-2			13-11-1195-5			13-11-1195-8			13-11-1195-11		
Sample Date		11/14/2013			11/14/2013			11/14/2013			11/14/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		1-3"			1-3"			1-3"			1-3"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles													
1-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02
2-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02
Acenaphthene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02
Acenaphthylene	mg/kg		U	0.04	0.045		0.02		U	0.04		U	0.02
Anthracene	mg/kg		U	0.04	0.046		0.02		U	0.04		U	0.02
Benzo (a) Anthracene	mg/kg	0.054		0.04	0.083		0.02	0.043		0.04	0.069		0.02
Benzo (a) Pyrene	mg/kg	0.067		0.04	0.21		0.02	0.054		0.04	0.11		0.02
Benzo (b) Fluoranthene	mg/kg	0.069		0.04	0.12		0.02	0.047		0.04	0.079		0.02
Benzo (g,h,i) Perylene	mg/kg	0.071		0.04	0.22		0.02	0.053		0.04	0.088		0.02
Benzo (k) Fluoranthene	mg/kg	0.044		0.04	0.085		0.02		U	0.04	0.066		0.02
Chrysene	mg/kg	0.1		0.04	0.13		0.02	0.081		0.04	0.11		0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.04	0.026		0.02		U	0.04	0.022		0.02
Fluoranthene	mg/kg	0.1		0.04	0.32		0.02	0.062		0.04	0.097		0.02
Fluorene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.044		0.04	0.14		0.02		U	0.04	0.06		0.02
Naphthalene	mg/kg	0.091		0.04	0.028		0.02		U	0.04		U	0.02
Phenanthrene	mg/kg	0.081		0.04	0.28		0.02		U	0.04	0.042		0.02
Pyrene	mg/kg	0.11		0.04	0.37		0.02	0.073		0.04	0.12		0.02
PCBs													
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50	73		50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50
Total Metals													
Antimony	mg/kg		U	2		U	2		U	2		U	2
Arsenic	mg/kg	3.92		1	3.58		1	3.41		1	6.53		1
Cadmium	mg/kg	1.41		1		U	1	1.27		1		U	1
Chromium	mg/kg	25.6		2	19		2	23.3		2	24.5		2
Lead	mg/kg	66.4		1	45.5		1	82.9		1	64.9		1
Sieved Metals													
Antimony	mg/kg		NA			NA			NA			NA	
Arsenic	mg/kg		NA			NA			NA			NA	
Cadmium	mg/kg		NA			NA			NA			NA	
Chromium	mg/kg		NA			NA			NA			NA	
Lead	mg/kg		NA			NA			NA			NA	

Sample Location		SS-BG-05-3			SS-BG-06-3			SS-BG-07-3			SS-BG-08-3		
Lab ID		13-11-1195-14			13-11-1195-17			13-11-1340-2 / 13 11-1340-23			13-11-1340-5 / 13 11-1340-25		
Sample Date		11/14/2013			11/14/2013			11/15/2013			11/15/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		1-3"			1-3"			1-3"			1-3"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles													
1-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
2-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Acenaphthene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Acenaphthylene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Anthracene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Benzo (a) Anthracene	mg/kg	0.067		0.04	0.031		0.02		U	0.04	0.043		0.04
Benzo (a) Pyrene	mg/kg	0.089		0.04	0.04		0.02		U	0.04	0.051		0.04
Benzo (b) Fluoranthene	mg/kg	0.088		0.04	0.033		0.02		U	0.04	0.049		0.04
Benzo (g,h,i) Perylene	mg/kg	0.085		0.04	0.037		0.02	0.04		0.04	0.062		0.04
Benzo (k) Fluoranthene	mg/kg	0.049		0.04	0.025		0.02		U	0.04		U	0.04
Chrysene	mg/kg	0.13		0.04	0.056		0.02	0.045		0.04	0.081		0.04
Dibenz (a,h) Anthracene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Fluoranthene	mg/kg	0.084		0.04	0.04		0.02		U	0.04		U	0.04
Fluorene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.056		0.04	0.022		0.02		U	0.04		U	0.04
Naphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.04
Phenanthrene	mg/kg	0.045		0.04	0.031		0.02		U	0.04		U	0.04
Pyrene	mg/kg	0.11		0.04	0.045		0.02		U	0.04	0.056		0.04
PCBs													
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50
Total Metals													
Antimony	mg/kg		U	2		U	2		U	2		U	2
Arsenic	mg/kg	3.59		1	5.43		1	5.94		1	11.5		1
Cadmium	mg/kg		U	1		U	1		U	1	4.24		1
Chromium	mg/kg	24		2	25.5		2	25		2	211		2
Lead	mg/kg	83.3		1	55.8		1	50.5		1	195		1
Sieved Metals													
Antimony	mg/kg		NA			NA			U	2		U	2
Arsenic	mg/kg		NA			NA		5.32		1	9.28		1
Cadmium	mg/kg		NA			NA			U	1	3.54		1
Chromium	mg/kg		NA			NA		24.4		2	173		2
Lead	mg/kg		NA			NA		55.4		1	166		1

Sample Location		SS-BG-09-3			SS-BG-10-3			SS-BG-11-3			SS-BG-12-3		
Lab ID		13-11-1340-8 / 13 11-1340-27			13-11-1340-11 / 13-11-1340-29			13-11-1340-17			13-11-1340-20		
Sample Date		11/15/2013			11/15/2013			11/15/2013			11/15/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		1-3"			1-3"			1-3"			1-3"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles													
1-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
2-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthylene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Anthracene	mg/kg	0.038		0.02		U	0.02		U	0.02		U	0.02
Benzo (a) Anthracene	mg/kg	0.15		0.02	0.036		0.02	0.023		0.02	0.022		0.02
Benzo (a) Pyrene	mg/kg	0.15		0.02	0.048		0.02	0.029		0.02	0.028		0.02
Benzo (b) Fluoranthene	mg/kg	0.16		0.02	0.037		0.02	0.025		0.02	0.022		0.02
Benzo (g,h,i) Perylene	mg/kg	0.1		0.02	0.043		0.02	0.037		0.02	0.03		0.02
Benzo (k) Fluoranthene	mg/kg	0.1		0.02	0.025		0.02		U	0.02		U	0.02
Chrysene	mg/kg	0.17		0.02	0.06		0.02	0.041		0.02	0.036		0.02
Dibenz (a,h) Anthracene	mg/kg	0.038		0.02		U	0.02		U	0.02		U	0.02
Fluoranthene	mg/kg	0.18		0.02	0.039		0.02	0.022		0.02	0.024		0.02
Fluorene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.077		0.02	0.027		0.02		U	0.02		U	0.02
Naphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02
Phenanthrene	mg/kg	0.041		0.02		U	0.02		U	0.02		U	0.02
Pyrene	mg/kg	0.19		0.02	0.055		0.02	0.033		0.02	0.032		0.02
PCBs													
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50
Total Metals													
Antimony	mg/kg		U	2		U	2		U	2		U	2
Arsenic	mg/kg	4.29		1	4.21		1	9.4		1	2.96		1
Cadmium	mg/kg		U	1		U	1		U	1		U	1
Chromium	mg/kg	21.2		2	20.8		2	20.1		2	32.1		2
Lead	mg/kg	45.6		1	46.2		1	96		1	72		1
Sieved Metals													
Antimony	mg/kg		U	2		U	2		NA			NA	
Arsenic	mg/kg	4.32		1	3.76		1		NA			NA	
Cadmium	mg/kg		U	1		U	1		NA			NA	
Chromium	mg/kg	24		2	21.9		2		NA			NA	
Lead	mg/kg	63.1		1	51.7		1		NA			NA	

TABLE C-2
EXIDE VERNON
Off-Site Soil Sampling
Background Area 1-3" Sample Results

Sample Location		SS-BG-13-3			SS-BG-14-3			SS-BG-15-3			SS-BG-16-3			SS-BG-17-3			SS-BG-18-3			SS-BG-19-3			SS-BG-20-3		
Lab ID		13-11-1369-2			13-11-1369-5			13-11-1369-8			13-11-1369-11			13-11-1369-14			13-11-1369-17			13-11-1369-20			13-11-1340-14		
Sample Date		11/16/2013			11/16/2013			11/16/2013			11/16/2013			11/16/2013			11/16/2013			11/16/2013			11/15/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																									
1-Methylnaphthalene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02
2-Methylnaphthalene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthylene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02	0.096		0.02		U	0.02
Anthracene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02	0.16		0.02		U	0.02
Benzo (a) Anthracene	mg/kg	0.033		0.02	0.04	J	0.02	0.035		0.02	0.074		0.04	0.032		0.02	0.025		0.02	0.028		0.02	0.045		0.02
Benzo (a) Pyrene	mg/kg	0.064		0.02	0.064	J	0.02	0.047		0.02	0.086		0.04	0.041		0.02	0.032		0.02	0.059		0.02	0.054		0.02
Benzo (b) Fluoranthene	mg/kg	0.076		0.02	0.043	J	0.02	0.051		0.02	0.081		0.04	0.041		0.02	0.029		0.02	0.044		0.02	0.056		0.02
Benzo (g,h,i) Perylene	mg/kg	0.055		0.02	0.063	J	0.02	0.047		0.02	0.079		0.04	0.031		0.02	0.026		0.02	0.19		0.02	0.055		0.02
Benzo (k) Fluoranthene	mg/kg	0.044		0.02	0.036	J	0.02	0.026		0.02	0.058		0.04		U	0.02		U	0.02		U	0.02	0.031		0.02
Chrysene	mg/kg	0.081		0.02	0.066	J	0.02	0.065		0.02	0.12		0.04	0.056		0.02	0.047		0.02	0.046		0.02	0.089		0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.02	0.021	J	0.02		U	0.02		U	0.04		U	0.02		U	0.02	0.034		0.02	0.022		0.02
Fluoranthene	mg/kg	0.1		0.02	0.061	J	0.02	0.067		0.02	0.1		0.04	0.036		0.02	0.031		0.02	0.021		0.02	0.04		0.02
Fluorene	mg/kg		U	0.02		UJ	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.038		0.02	0.051	J	0.02	0.027		0.02	0.046		0.04		U	0.02		U	0.02	0.094		0.02	0.035		0.02
Naphthalene	mg/kg		U	0.02	0.027	J	0.02		U	0.02		U	0.04	0.021		0.02	0.021		0.02		U	0.02		U	0.02
Phenanthrene	mg/kg	0.058		0.02	0.028	J	0.02	0.032		0.02	0.047		0.04	0.024		0.02		U	0.02		U	0.02	0.038		0.02
Pyrene	mg/kg	0.15		0.02	0.074	J	0.02	0.081		0.02	0.14		0.04	0.051		0.02	0.044		0.02	0.024		0.02	0.061		0.02
PCBs																									
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																									
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	2.85		1	3.41		1	3.18		1	4.3		1	3.18		1	7.79		1	4.43		1	10.9		1
Cadmium	mg/kg		U	1		U	1		U	1		U	1		U	1		U	1		U	1	3.5		1
Chromium	mg/kg	14.6		2	20		2	17.2		2	19.7		2	17.8		2	21.2		2	19.9		2	221		2
Lead	mg/kg	41.6		1	58.9		1	54.2		1	82.9		1	54.9		1	64.6		1	31.5		1	164		1
Sieved Metals																									
Antimony	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Arsenic	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Cadmium	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Chromium	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Lead	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	

TABLE C-3
EXIDE VERNON
Off-Site Soil Sampling
Background Area 3-6" Sample Results

Sample Location		SS-BG-01-6			SS-BG-02-6			SS-BG-03-6			SS-BG-04-6		
Lab ID		13-11-1195-3			13-11-1195-6			13-11-1195-9			13-11-1195-12		
Sample Date		11/14/2013			11/14/2013			11/14/2013			11/14/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/kg	28.8		1	44.8		1	96.4		1	66.5		1

Sample Location		SS-BG-05-6			SS-BG-06-6			SS-BG-07-6			SS-BG-08-6		
Lab ID		13-11-1195-15			13-11-1195-18			13-11-1340-3			13-11-1340-6		
Sample Date		11/14/2013			11/14/2013			11/15/2013			11/15/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/kg	72		1	64.1		1	55.3		1	70.8		1

Sample Location		SS-BG-09-6			SS-BG-10-6			SS-BG-11-6			SS-BG-12-6		
Lab ID		13-11-1340-9			13-11-1340-12			13-11-1340-18			13-11-1340-21		
Sample Date		11/15/2013			11/15/2013			11/15/2013			11/15/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/kg	62.8		1	36.1		1	106		1	43.1		1

Sample Location		SS-BG-13-6			SS-BG-14-6			SS-BG-15-6			SS-BG-16-6		
Lab ID		13-11-1369-3			13-11-1369-6			13-11-1369-9			13-11-1369-12		
Sample Date		11/16/2013			11/16/2013			11/16/2013			11/16/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/kg	38.1		1	53.1		1	36.8		1	114		1

Sample Location		SS-BG-17-6			SS-BG-18-6			SS-BG-19-6		
Lab ID		13-11-1369-15			13-11-1369-18			13-11-1369-21		
Sample Date		11/16/2013			11/16/2013			11/16/2013		
Matrix		Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals										
Lead	mg/kg	58.9		1	37.4		1	40.1		1

TABLE C-4
EXIDE VERNON
Off-Site Soil Sampling
Northern Assessment Area 0-1" Sample Results

Sample Location		SS-MEIR-N-01-1			SS-MEIR-N-02-1			SS-MEIR-N-03-1			SS-MEIR-N-04-1			SS-MEIR-N-05-1			SS-MEIR-N-06-1			SS-MEIR-N-07-1			SS-MEIR-N-08-1			SS-MEIR-N-09-1			SS-MEIR-N-10-1			SS-MEIR-N-11-1			SS-MEIR-N-12-1		
Lab ID		13-11-1432-1			13-11-1432-4			13-11-1432-7			13-11-1432-10 / 13-11-1432-26			13-11-1432-13			13-11-1432-17			13-11-1432-20			13-11-1432-23 / 13-11-1432-28			13-11-1506-1 / 13-11-1506-22			13-11-1506-4			13-11-1506-7 / 13-11-1506-24			13-11-1506-10		
Sample Date		11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/19/2013			11/19/2013			11/19/2013			11/19/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																																					
1-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
2-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Acenaphthene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Acenaphthylene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Benzo (a) Anthracene	mg/kg	0.024		0.02		U	0.02	0.03		0.02		U	0.04	0.021		0.02		U	0.02	0.026		0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Benzo (a) Pyrene	mg/kg	0.037		0.02		U	0.02	0.036		0.02		U	0.04	0.029		0.02		U	0.02	0.034		0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Benzo (b) Fluoranthene	mg/kg	0.04		0.02		U	0.02	0.025		0.02		U	0.04	0.044		0.02		U	0.02	0.039		0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Benzo (g,h,i) Perylene	mg/kg	0.041		0.02		U	0.02	0.029		0.02	0.041		0.04	0.033		0.02		U	0.02	0.028		0.02		U	0.04	0.062		0.04		U	0.04	0.089		0.08		U	0.02
Benzo (k) Fluoranthene	mg/kg	0.026		0.02		U	0.02	0.022		0.02		U	0.04	0.024		0.02		U	0.02	0.03		0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Chrysene	mg/kg	0.043		0.02		U	0.02	0.041		0.02	0.043		0.04	0.046		0.02	0.024		0.02	0.048		0.02		U	0.04	0.043		0.04		U	0.04		U	0.08		U	0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Fluoranthene	mg/kg	0.051		0.02		U	0.02	0.045		0.02	0.044		0.04	0.047		0.02	0.023		0.02	0.054		0.02		U	0.04	0.046		0.04	0.05		0.04		U	0.08		U	0.02
Fluorene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.026		0.02		U	0.02	0.021		0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Naphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04		U	0.04		U	0.04	0.16		0.08		U	0.02
Phenanthrene	mg/kg	0.027		0.02		U	0.02		U	0.02		U	0.04	0.028		0.02		U	0.02	0.031		0.02		U	0.04		U	0.04		U	0.04		U	0.08		U	0.02
Pyrene	mg/kg	0.055		0.02		U	0.02	0.052		0.02	0.048		0.04	0.051		0.02	0.024		0.02	0.057		0.02		U	0.04	0.047		0.04	0.044		0.04		U	0.08		U	0.02
PCBs																																					
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																																					
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	2.88		1	1.72		1	3.97		1	2.55		1	3.35		1	2.68		1	3.49		1	3.22		1	3.3		1	1.91		1	1.39		1	1.87		1
Cadmium	mg/kg	1.74		1		U	1	1.44		1	1.11		1	1.98		1	1.19		1	1.09		1	1.55		1	1.66		1	1.1		1	1.06		1		U	1
Chromium	mg/kg	18.8		2	13.5		2	24.1		2	16.3		2	29.5		2	22.9		2	14.9		2	20.8		2	21.9		2	17		2	13.1		2	15		2
Lead	mg/kg	228		1	81.8		1	144		1	164		1	156		1	116		1	202		1	248		1	163		1	224		1	162		1	132		1
Sieved Metals																																					
Antimony	mg/kg		NA			NA			NA			U	2		NA			NA			NA		2.25		2		U	2		NA			U	2		NA	
Arsenic	mg/kg		NA			NA			NA		3.23		1		NA			NA			NA		3.12		1	3.46		1		NA		1.63		1		NA	
Cadmium	mg/kg		NA			NA			NA		1.55		1		NA			NA			NA		1.43		1	1.68		1		NA		1.12		1		NA	
Chromium	mg/kg		NA			NA			NA		20.1		2		NA			NA			NA		26		2	24.9		2		NA		18.6		2		NA	
Lead	mg/kg		NA			NA			NA		338		1		NA			NA			NA		257		1	202		1		NA		149		1		NA	
Other Metals																																					
Hexavalent Chromium	ug/Kg		UJ	2000		NA			UJ	2000		NA			UJ	2000		UJ	2000		NA			UJ	2000		UJ	2000		NA			NA			NA	

TABLE C-4
EXIDE VERNON
Off-Site Soil Sampling
Northern Assessment Area 0-1" Sample Results

Sample Location		SS-MEIR-N-13-1			SS-MEIR-N-14-1			SS-MEIR-N-15-1			SS-MEIR-N-16-1			SS-MEIR-N-17-1			SS-MEIR-N-18-1			SS-MEIR-N-19-1			SS-MEIR-N-20-1		
Lab ID		13-11-1506-13			13-11-1506-15			13-11-1506-18			13-11-1642-20			13-11-1642-26			13-11-1642-29			13-11-1642-32			13-11-1642-23		
Sample Date		11/19/2013			11/19/2013			11/19/2013			11/20/2013			11/20/2013			11/20/2013			11/20/2013			11/20/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																									
1-Methylnaphthalene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
2-Methylnaphthalene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Acenaphthene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.067		0.02		U	0.02		U	0.04
Acenaphthylene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Anthracene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.038		0.02		U	0.02		U	0.04
Benzo (a) Anthracene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.1		0.02		U	0.02		U	0.04
Benzo (a) Pyrene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.18		0.02	0.024		0.02		U	0.04
Benzo (b) Fluoranthene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.16		0.02	0.027		0.02		U	0.04
Benzo (g,h,i) Perylene	mg/kg		U	0.04	0.058		0.04		U	0.02		U	0.04		U	0.02	0.2		0.02	0.032		0.02		U	0.04
Benzo (k) Fluoranthene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.11		0.02		U	0.02		U	0.04
Chrysene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.15		0.02	0.029		0.02		U	0.04
Dibenz (a,h) Anthracene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.027		0.02		U	0.02		U	0.04
Fluoranthene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.42		0.02	0.032		0.02		U	0.04
Fluorene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Indeno (1,2,3-c,d) Pyrene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.19		0.02	0.025		0.02		U	0.04
Naphthalene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04	0.1		0.02	0.067		0.02		U	0.02		U	0.04
Phenanthrene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.3		0.02		U	0.02		U	0.04
Pyrene	mg/kg		U	0.04		U	0.04		U	0.02		U	0.04		U	0.02	0.41		0.02	0.031		0.02		U	0.04
PCBs																									
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																									
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	2.32		1	2.93		1	3.13		1	5.27		1	3.27		1	9.32		1	3.98		1	5.85		1
Cadmium	mg/kg	1.16		1	1.91		1	1.1		1	2.42		1	1.61		1		U	1	1.56		1	2.41		1
Chromium	mg/kg	17.4		2	19.5		2	19.9		2	24.3		2	17.4		2	17.6		2	21.5		2	24.1		2
Lead	mg/kg	146		1	342		1	62.5		1	323		1	137		1	114		1	179		1	339		1
Sieved Metals																									
Antimony	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Arsenic	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Cadmium	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Chromium	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Lead	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Other Metals																									
Hexavalent Chromium	ug/Kg		NA			UJ	2000		UJ	2000		UJ	2000		NA			NA			UJ	2000		NA	

TABLE C-5
EXIDE VERNON
Off-Site Soil Sampling
Northern Assessment Area 1-3" Sample Results

Sample Location		SS-MEIR-N-01-3			SS-MEIR-N-02-3			SS-MEIR-N-03-3			SS-MEIR-N-04-3			SS-MEIR-N-05-3			SS-MEIR-N-06-3			SS-MEIR-N-07-3			SS-MEIR-N-08-3			SS-MEIR-N-09-3			SS-MEIR-N-10-3			SS-MEIR-N-11-3			SS-MEIR-N-12-3		
Lab ID		13-11-1432-2			13-11-1432-5			13-11-1432-8			13-11-1432-11 / 13-11-1432-27			13-11-1432-14			13-11-1432-18			13-11-1432-21			13-11-1432-24 / 13-11-1432-29			13-11-1506-2 / 13-11-1506-23			13-11-1506-5			13-11-1506-8 / 13-11-1506-25			13-11-1506-11		
Sample Date		11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/19/2013			11/19/2013			11/19/2013			11/19/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																																					
1-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.04		U	0.04		U	0.04		U	0.04		U	0.02
2-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.04		U	0.04		U	0.04		U	0.04		U	0.02
Acenaphthene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.04		U	0.04		U	0.04		U	0.04		U	0.02
Acenaphthylene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.04		U	0.04		U	0.04		U	0.04		U	0.02
Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.04		U	0.04		U	0.04		U	0.04		U	0.02
Benzo (a) Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02	0.029		0.02		U	0.04	0.029		0.02		U	0.04	0.042		0.04		U	0.04		U	0.04		U	0.02
Benzo (a) Pyrene	mg/kg	0.026		0.02		U	0.02		U	0.02	0.025		0.02	0.04		0.02		U	0.04	0.044		0.02		U	0.04	0.053		0.04		U	0.04		U	0.04		U	0.02
Benzo (b) Fluoranthene	mg/kg	0.026		0.02		U	0.02		U	0.02	0.031		0.02	0.049		0.02		U	0.04	0.05		0.02		U	0.04	0.069		0.04		U	0.04	0.052		0.04		U	0.02
Benzo (g,h,i) Perylene	mg/kg	0.028		0.02		U	0.02		U	0.02	0.028		0.02	0.041		0.02		U	0.04	0.037		0.02		U	0.04	0.087		0.04		U	0.04	0.054		0.04		U	0.02
Benzo (k) Fluoranthene	mg/kg	0.024		0.02		U	0.02		U	0.02		U	0.02	0.032		0.02		U	0.04	0.036		0.02		U	0.04	0.045		0.04		U	0.04		U	0.04		U	0.02
Chrysene	mg/kg	0.033		0.02		U	0.02	0.021		0.02	0.032		0.02	0.058		0.02		U	0.04	0.058		0.02		U	0.04	0.082		0.04		U	0.04	0.048		0.04		U	0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.04		U	0.04		U	0.04		U	0.04		U	0.02
Fluoranthene	mg/kg	0.035		0.02		U	0.02	0.022		0.02	0.034		0.02	0.063		0.02		U	0.04	0.059		0.02		U	0.04	0.11		0.04		U	0.04	0.053		0.04		U	0.02
Fluorene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.04		U	0.04		U	0.04		U	0.04		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02	0.025		0.02		U	0.04	0.027		0.02		U	0.04	0.056		0.04		U	0.04		U	0.04		U	0.02
Naphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02		U	0.04		U	0.04		U	0.04		U	0.04		U	0.02
Phenanthrene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02	0.04		0.02		U	0.04	0.027		0.02		U	0.04	0.066		0.04		U	0.04		U	0.04		U	0.02
Pyrene	mg/kg	0.037		0.02		U	0.02	0.024		0.02	0.035		0.02	0.069		0.02		U	0.04	0.064		0.02		U	0.04	0.11		0.04		U	0.04	0.05		0.04		U	0.02
PCBs																																					
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																																					
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	3.23		1	2.14		1	4.82		1	3.06		1	3.78		1	2.96		1	3.96		1	3.13		1	3.5		1	2.41		1	2.34		1	2.19		1
Cadmium	mg/kg	1.77		1	1.11		1	1.43		1	1.41		1	2.26		1	1.3		1	1.2		1	1.54		1	1.77		1	1.36		1		U	1		U	1
Chromium	mg/kg	19.2		2	13.4		2	23.7		2	18.2		2	31.5		2	27.2		2	17.4		2	18.5		2	25.2		2	19.2		2	16.8		2	16.4		2
Lead	mg/kg	208		1	107		1	177		1	330		1	175		1	141		1	257		1	224		1	201		1	251		1	133		1	129		1
Sieved Metals																																					
Antimony	mg/kg		NA			NA			NA			U	2		NA			NA			NA			U	2		U	2		NA			U	2		NA	
Arsenic	mg/kg		NA			NA			NA		2.87		1		NA			NA			NA		3.1		1	3.43		1		NA		2.45		1		NA	
Cadmium	mg/kg		NA			NA			NA		1.56		1		NA			NA			NA		1.53		1	1.99		1		NA			U	1		NA	
Chromium	mg/kg		NA			NA			NA		20.4		2		NA			NA			NA		21.3		2	28.1		2		NA		20		2		NA	
Lead	mg/kg		NA			NA			NA		243		1		NA			NA			NA		249		1	240		1		NA		171		1		NA	

TABLE C-5
EXIDE VERNON
Off-Site Soil Sampling
Northern Assessment Area 1-3" Sample Results

Sample Location		SS-MEIR-N-13-3			SS-MEIR-N-14-3			SS-MEIR-N-15-3			SS-MEIR-N-16-3			SS-MEIR-N-17-3			SS-MEIR-N-18-3			SS-MEIR-N-19-3			SS-MEIR-N-20-3		
Lab ID		13-11-1506-14			13-11-1506-16			13-11-1506-19			13-11-1642-21			13-11-1642-27			13-11-1642-30			13-11-1642-33			13-11-1642-24		
Sample Date		11/19/2013			11/19/2013			11/19/2013			11/20/2013			11/20/2013			11/20/2013			11/20/2013			11/20/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																									
1-Methylnaphthalene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
2-Methylnaphthalene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Acenaphthene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Acenaphthylene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Anthracene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.03		0.02		U	0.02		U	0.04
Benzo (a) Anthracene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.16		0.02		U	0.02		U	0.04
Benzo (a) Pyrene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.21		0.02	0.029		0.02		U	0.04
Benzo (b) Fluoranthene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.21		0.02	0.034		0.02		U	0.04
Benzo (g,h,i) Perylene	mg/kg		U	0.02	0.065		0.04		U	0.02		U	0.04		U	0.02	0.2		0.02	0.031		0.02		U	0.04
Benzo (k) Fluoranthene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.18		0.02	0.023		0.02		U	0.04
Chrysene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.24		0.02	0.032		0.02	0.04		0.04
Dibenz (a,h) Anthracene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.042		0.02		U	0.02		U	0.04
Fluoranthene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.52		0.02	0.036		0.02	0.042		0.04
Fluorene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.04
Indeno (1,2,3-c,d) Pyrene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.21		0.02	0.026		0.02		U	0.04
Naphthalene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02	0.051		0.04
Phenanthrene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.29		0.02		U	0.02		U	0.04
Pyrene	mg/kg		U	0.02		U	0.04		U	0.02		U	0.04		U	0.02	0.41		0.02	0.036		0.02	0.043		0.04
PCBs																									
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																									
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	2.19		1	3.37		1	3.55		1	6.79		1	3.31		1	8.39		1	4.48		1	6.79		1
Cadmium	mg/kg	1.41		1	2.16		1	1.24		1	2.25		1	1.76		1		U	1	1.69		1	3.22		1
Chromium	mg/kg	18.4		2	22.6		2	22.9		2	20.7		2	20.1		2	15.6		2	25.5		2	24.6		2
Lead	mg/kg	174		1	454		1	70.6		1	253		1	149		1	126		1	184		1	411		1
Sieved Metals																									
Antimony	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Arsenic	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Cadmium	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Chromium	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	
Lead	mg/kg		NA			NA			NA			NA			NA			NA			NA			NA	

TABLE C-6
EXIDE VERNON
Off-Site Soil Sampling
Northern Assessment Area 3-6" Sample Results

Sample Location		SS-MEIR-N-01-6			SS-MEIR-N-02-6			SS-MEIR-N-03-6			SS-MEIR-N-04-6			SS-MEIR-N-05-6		
Lab ID		13-11-1432-3			13-11-1432-6			13-11-1432-9			13-11-1432-12			13-11-1432-15		
Sample Date		11/18/2013			11/18/2013			11/18/2013			11/18/2013			11/18/2013		
Matrix		Soil			Soil			Soil			Soil			Soil		
Remarks																
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals																
Lead	mg/Kg	202		1	143		1	147		1	340		1	215		1

Sample Location		SS-MEIR-N-06-6			SS-MEIR-N-07-6			SS-MEIR-N-08-6			SS-MEIR-N-09-6			SS-MEIR-N-10-6		
Lab ID		13-11-1432-19			13-11-1432-22			13-11-1432-25			13-11-1506-3			13-11-1506-6		
Sample Date		11/18/2013			11/18/2013			11/18/2013			11/19/2013			11/19/2013		
Matrix		Soil			Soil			Soil			Soil			Soil		
Remarks		3-6'			3-6'			3-6'			3-6'			3-6'		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals																
Lead	mg/Kg	178		1	105		1	299		1	206		1	277		1

Sample Location		SS-MEIR-N-11-6			SS-MEIR-N-12-6			SS-MEIR-N-13-6			SS-MEIR-N-15-6			SS-MEIR-N-16-6		
Lab ID		13-11-1506-9			13-11-1506-12			13-11-1506-21			13-11-1506-20			13-11-1642-22		
Sample Date		11/19/2013			11/19/2013			11/19/2013			11/19/2013			11/20/2013		
Matrix		Soil			Soil			Soil			Soil			Soil		
Remarks		3-6'			3-6'			3-6'			3-6'			3-6'		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals																
Lead	mg/Kg	132		1	172		1	117		1	109		1	582		1

Sample Location		SS-MEIR-N-17-6			SS-MEIR-N-18-6			SS-MEIR-N-19-6		
Lab ID		13-11-1642-28			13-11-1642-31			13-11-1642-34		
Sample Date		11/20/2013			11/20/2013			11/20/2013		
Matrix		Soil			Soil			Soil		
Remarks		3-6'			3-6'			3-6'		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals										
Lead	mg/Kg	126		1	289		1	191		1

Sample Location		SS-MEIR-N-14-6			SS-MEIR-N-14-6			SS-MEIR-N-14-6			SS-MEIR-N-14-6		
Lab ID		13-11-1506-17			13-11-1506-17a			13-11-1506-17b			13-11-1506-17c		
Sample Date		11/19/2013			11/19/2013			11/19/2013			11/19/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			Reanalysis			Reanalysis			Reanalysis		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/Kg	2030		1	419		1	385		1	381		1

TABLE C-7
EXIDE VERNON
Off-Site Soil Sampling
Southern Assessment Area 0-1" Sampling Results

Sample Location		SS-MEIR-S-01-1			SS-MEIR-S-02-1			SS-MEIR-S-03-1			SS-MEIR-S-04-1			SS-MEIR-S-05-1			SS-MEIR-S-06-1		
Lab ID		13-11-1642-2			13-11-1642-5 / 13-11-1642-35			13-11-1642-8			13-11-1642-11			13-11-1642-14 / 13-11-1642-37			13-11-1642-17		
Sample Date		11/20/2013			11/20/2013			11/20/2013			11/20/2013			11/20/2013			11/20/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		0-1"			0-1"			0-1"			0-1"			0-1"			0-1"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																			
1-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
2-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthylene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Benzo (a) Anthracene	mg/kg		U	0.02		U	0.02	0.027		0.02		U	0.02		U	0.02		U	0.02
Benzo (a) Pyrene	mg/kg	0.03		0.02		U	0.02	0.034		0.02		U	0.02	0.022		0.02	0.03		0.02
Benzo (b) Fluoranthene	mg/kg	0.041		0.02		U	0.02	0.026		0.02		U	0.02	0.024		0.02	0.031		0.02
Benzo (g,h,i) Perylene	mg/kg	0.031		0.02		U	0.02	0.03		0.02		U	0.02	0.024		0.02	0.035		0.02
Benzo (k) Fluoranthene	mg/kg	0.025		0.02		U	0.02	0.023		0.02		U	0.02		U	0.02	0.022		0.02
Chrysene	mg/kg	0.034		0.02		U	0.02	0.033		0.02	0.02		0.02	0.024		0.02	0.026		0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Fluoranthene	mg/kg	0.05		0.02		U	0.02	0.046		0.02	0.023		0.02	0.032		0.02	0.038		0.02
Fluorene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.033		0.02		U	0.02	0.029		0.02		U	0.02		U	0.02	0.032		0.02
Naphthalene	mg/kg		U	0.02	0.14		0.02		U	0.02		U	0.02		U	0.02	0.22		0.02
Phenanthrene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	0.03		0.02
Pyrene	mg/kg	0.041		0.02		U	0.02	0.052		0.02	0.023		0.02	0.03		0.02	0.038		0.02
PCBs																			
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																			
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	6.53		1	1.67		1	1.61		1	1.51		1	2.68		1	3.18		1
Cadmium	mg/kg	1.25		1		U	1		U	1	1.14		1	1.31		1	1.26		1
Chromium	mg/kg	18.7		2	15.1		2	16.1		2	17.2		2	19.9		2	20.6		2
Lead	mg/kg	122		1	39.7		1	90.9		1	134		1	164		1	138		1
Sieved Metals																			
Antimony	mg/kg		NA			U	2		NA			NA			U	2		NA	
Arsenic	mg/kg		NA		1.81		1		NA			NA		2.25		1		NA	
Cadmium	mg/kg		NA			U	1		NA			NA		1.26		1		NA	
Chromium	mg/kg		NA		16.5		2		NA			NA		19.6		2		NA	
Lead	mg/kg		NA		44.7		1		NA			NA		169		1		NA	
Other Metals																			
Chromium, Hexavalent	ug/kg		UJ	2000					NA			NA			UJ	2000		UJ	2000

Sample Location		SS-MEIR-S-07-1			SS-MEIR-S-08-1			SS-MEIR-S-09-1			SS-MEIR-S-10-1			SS-MEIR-S-11-1			SS-MEIR-S-12-1		
Lab ID		13-11-1756-1			13-11-1756-4			13-11-1756-7			13-11-1756-10 / 13-11-1756-34			13-11-1756-13			13-11-1756-16		
Sample Date		11/21/2013			11/21/2013			11/21/2013			11/21/2013			11/21/2013			11/21/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		0-1"			0-1"			0-1"			0-1"			0-1"			0-1"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																			
1-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
2-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthylene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Benzo (a) Anthracene	mg/kg		U	0.02	0.022		0.02	0.026		0.02	0.035		0.02	0.033		0.02	0.023		0.02
Benzo (a) Pyrene	mg/kg		U	0.02	0.028		0.02	0.032		0.02	0.043		0.02	0.042		0.02	0.023		0.02
Benzo (b) Fluoranthene	mg/kg		U	0.02	0.031		0.02	0.038		0.02	0.044		0.02	0.038		0.02		U	0.02
Benzo (g,h,i) Perylene	mg/kg		U	0.02	0.033		0.02	0.038		0.02	0.035		0.02	0.033		0.02		U	0.02
Benzo (k) Fluoranthene	mg/kg		U	0.02	0.022		0.02	0.025		0.02	0.035		0.02	0.032		0.02		U	0.02
Chrysene	mg/kg		U	0.02	0.031		0.02	0.041		0.02	0.049		0.02	0.037		0.02	0.032		0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Fluoranthene	mg/kg		U	0.02	0.042		0.02	0.054		0.02	0.083		0.02	0.057		0.02	0.036		0.02
Fluorene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg		U	0.02	0.025		0.02	0.027		0.02	0.034		0.02	0.033		0.02		U	0.02
Naphthalene	mg/kg		U	0.02	0.038		0.02		U	0.02		U	0.02		U	0.02		U	0.02
Phenanthrene	mg/kg		U	0.02		U	0.02		U	0.02	0.038		0.02	0.032		0.02	0.021		0.02
Pyrene	mg/kg		U	0.02	0.042		0.02	0.052		0.02	0.071		0.02	0.051		0.02	0.039		0.02
PCBs																			
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50	69		50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																			
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	2.05		1	1.92		1	2.55		1	1.95		1	1.79		1	2.9		1
Cadmium	mg/kg	1.09		1	1.09		1		U	1	1.5		1	1.05		1	1.35		1
Chromium	mg/kg	16.2		2	14.4		2	19.2		2	16.8		2	15.3		2	19.7		2
Lead	mg/kg	144		1	151		1	134		1	174		1	116		1	140		1
Sieved Metals																			
Antimony	mg/kg		NA			NA			NA			U	2		NA			NA	
Arsenic	mg/kg		NA			NA			NA		1.98		1		NA			NA	
Cadmium	mg/kg		NA			NA			NA		1.62		1		NA			NA	
Chromium	mg/kg		NA			NA			NA		20.1		2		NA			NA	
Lead	mg/kg		NA			NA			NA		189		1		NA			NA	
Other Metals																			
Chromium, Hexavalent	ug/kg		NA			NA			U	2000		NA			NA			U	2000

TABLE C-7
EXIDE VERNON
Off-Site Soil Sampling
Southern Assessment Area 0-1" Sampling Results

Sample Location		SS-MEIR-S-13-1			SS-MEIR-S-14-1			SS-MEIR-S-15-1			SS-MEIR-S-16-1			SS-MEIR-S-17-1			SS-MEIR-S-18-1			SS-MEIR-S-19-1			SS-MEIR-S-20-1			SS-MEIR-S-21-1		
Lab ID		13-11-1756-22 / 13-11-1756-36			13-11-1756-25			13-11-1756-28			13-11-1756-31			13-11-1828-2			13-11-1828-5			13-11-1828-8			13-11-1756-19			13-11-1828-11		
Sample Date		11/21/2013			11/21/2013			11/21/2013			11/21/2013			11/22/2013			11/22/2013			11/22/2013			11/21/2013			11/22/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"			0-1"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																												
1-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02
2-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02
Acenaphthene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02
Acenaphthylene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02
Anthracene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02
Benzo (a) Anthracene	mg/kg		U	0.04		U	0.02	0.03		0.02		U	0.02	0.042		0.02	0.029		0.02	0.022		0.02		U	0.04	0.031		0.02
Benzo (a) Pyrene	mg/kg		U	0.04	0.021		0.02	0.037		0.02	0.024		0.02	0.051		0.02	0.035		0.02	0.024		0.02		U	0.04	0.035		0.02
Benzo (b) Fluoranthene	mg/kg		U	0.04	0.021		0.02	0.038		0.02	0.033		0.02	0.059		0.02	0.036		0.02	0.029		0.02		U	0.04	0.03		0.02
Benzo (g,h,i) Perylene	mg/kg		U	0.04	0.024		0.02	0.038		0.02	0.026		0.02	0.057		0.02	0.034		0.02		U	0.02		U	0.04	0.032		0.02
Benzo (k) Fluoranthene	mg/kg		U	0.04		U	0.02	0.032		0.02		U	0.02	0.044		0.02	0.034		0.02		U	0.02		U	0.04	0.029		0.02
Chrysene	mg/kg		U	0.04	0.023		0.02	0.045		0.02	0.027		0.02	0.071		0.02	0.054		0.02	0.031		0.02		U	0.04	0.041		0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02
Fluoranthene	mg/kg	0.045		0.04	0.03		0.02	0.062		0.02	0.035		0.02	0.075		0.02	0.051		0.02	0.037		0.02	0.063		0.04	0.054		0.02
Fluorene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg		U	0.04		U	0.02	0.03		0.02	0.025		0.02	0.035		0.02	0.023		0.02		U	0.02		U	0.04	0.026		0.02
Naphthalene	mg/kg		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.04		U	0.02
Phenanthrene	mg/kg		U	0.04		U	0.02	0.026		0.02		U	0.02	0.035		0.02	0.025		0.02		U	0.02		U	0.04		U	0.02
Pyrene	mg/kg	0.051		0.04	0.029		0.02	0.059		0.02	0.029		0.02	0.085		0.02	0.058		0.02	0.044		0.02	0.059		0.04	0.056		0.02
PCBs																												
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg	69		50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																												
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	2.22		1	1.79		1	2		1	2.01		1	1.66		1	1.83		1	1.82		1	3.15		1	1.57		1
Cadmium	mg/kg		U	1	1.5		1	1.25		1	1.12		1	1.43		1	1.46		1	1.35		1	1.33		1		U	1
Chromium	mg/kg	12.8		2	23.1		2	22.3		2	17.5		2	20.6		2	17.2		2	18.4		2	18.4		2	14		2
Lead	mg/kg	122		1	156		1	133		1	92.3		1	169		1	178		1	110		1	149		1	106		1
Sieved Metals																												
Antimony	mg/kg		U	2		NA			NA			NA			NA			NA			NA			NA			NA	
Arsenic	mg/kg	1.97		1		NA			NA			NA			NA			NA			NA			NA			NA	
Cadmium	mg/kg		U	1		NA			NA			NA			NA			NA			NA			NA			NA	
Chromium	mg/kg	13.7		2		NA			NA			NA			NA			NA			NA			NA			NA	
Lead	mg/kg	130		1		NA			NA			NA			NA			NA			NA			NA			NA	
Other Metals																												
Chromium, Hexavalent	ug/kg		NA			U	2000		U	2000		U	2000		U	2000		NA			U	2000		NA			NA	

TABLE C-8
EXIDE VERNON
Off-Site Soil Sampling
Southern Assessment Area 1-3" Sampling Results

Sample Location		SS-MEIR-S-01-3			SS-MEIR-S-02-3			SS-MEIR-S-03-3			SS-MEIR-S-04-3			SS-MEIR-S-05-3			SS-MEIR-S-06-3			SS-MEIR-S-07-3			SS-MEIR-S-08-3			SS-MEIR-S-09-3			SS-MEIR-S-10-3			SS-MEIR-S-11-3		
Lab ID		13-11-1642-3			13-11-1642-6 / 13-11-1642-36			13-11-1642-9			13-11-1642-12			13-11-1642-15 / 13-11-1642-38			13-11-1642-18			13-11-1756-2			13-11-1756-5			13-11-1756-8			13-11-1756-11 / 13-11-1756-35			13-11-1756-14		
Sample Date		11/20/2013			11/20/2013			11/20/2013			11/20/2013			11/20/2013			11/20/2013			11/21/2013			11/21/2013			11/21/2013			11/21/2013			11/21/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																																		
1-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
2-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthene	mg/kg		U	0.02	0.03		0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthylene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Benzo (a) Anthracene	mg/kg	0.022		0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	0.021		0.02	0.024		0.02	0.024		0.02		U	0.02
Benzo (a) Pyrene	mg/kg	0.035		0.02	0.032		0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	0.03		0.02	0.031		0.02	0.031		0.02	0.025		0.02
Benzo (b) Fluoranthene	mg/kg	0.041		0.02	0.024		0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	0.031		0.02	0.035		0.02	0.033		0.02	0.024		0.02
Benzo (g,h,i) Perylene	mg/kg	0.039		0.02	0.034		0.02		U	0.02		U	0.02	0.022		0.02		U	0.02		U	0.02	0.032		0.02	0.032		0.02	0.03		0.02	0.024		0.02
Benzo (k) Fluoranthene	mg/kg	0.029		0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	0.022		0.02	0.024		0.02	0.028		0.02		U	0.02
Chrysene	mg/kg	0.043		0.02	0.02		0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	0.03		0.02	0.036		0.02	0.039		0.02	0.026		0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Fluoranthene	mg/kg	0.057		0.02	0.094		0.02	0.02		0.02	0.022		0.02	0.025		0.02	0.021		0.02		U	0.02	0.037		0.02	0.049		0.02	0.051		0.02	0.032		0.02
Fluorene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.039		0.02	0.028		0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	0.027		0.02	0.026		0.02	0.026		0.02	0.02		0.02
Naphthalene	mg/kg		U	0.02	0.33		0.02		U	0.02		U	0.02	0.034		0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Phenanthrene	mg/kg		U	0.02	0.062		0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Pyrene	mg/kg	0.046		0.02	0.1		0.02	0.022		0.02	0.021		0.02	0.023		0.02	0.02		0.02		U	0.02	0.039		0.02	0.046		0.02	0.055		0.02	0.033		0.02
PCBs																																		
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50	55		50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																																		
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	7.53		1	1.86		1	1.74		1	1.77		1	2.66		1	2.89		1	2.11		1	2.76		1	3.09		1	1.87		1	2.24		1
Cadmium	mg/kg	1.24		1		U	1	1.18		1		U	1	1.44		1	1.31		1	1.05		1	1.56		1	1		1	1.64		1	1.14		1
Chromium	mg/kg	20		2	16		2	16.2		2	17.5		2	17.5		2	20.5		2	16.4		2	26.8		2	18.7		2	20		2	17.3		2
Lead	mg/kg	95.6		1	50.2		1	145		1	119		1	188		1	117		1	128		1	239		1	158		1	169		1	132		1
Sieved Metals																																		
Antimony	mg/kg		NA			U	2		NA			NA			U	2		NA			NA			NA			NA			U	2		NA	
Arsenic	mg/kg		NA		1.94		1		NA			NA		2.06		1		NA			NA			NA			NA		1.92		1		NA	
Cadmium	mg/kg		NA			U	1		NA			NA		1.28		1		NA			NA			NA			NA		1.79		1		NA	
Chromium	mg/kg		NA		17		2		NA			NA		19.6		2		NA			NA			NA			NA		20.7		2		NA	
Lead	mg/kg		NA		50		1		NA			NA		167		1		NA			NA			NA			NA		189		1		NA	

TABLE C-8
EXIDE VERNON
Off-Site Soil Sampling
Southern Assessment Area 1-3" Sampling Results

Sample Location		SS-MEIR-S-12-3			SS-MEIR-S-20-3			SS-MEIR-S-13-3			SS-MEIR-S-14-3			SS-MEIR-S-15-3			SS-MEIR-S-16-3			SS-MEIR-S-17-3			SS-MEIR-S-18-3			SS-MEIR-S-19-3			SS-MEIR-S-20-3			SS-MEIR-S-21-3		
Lab ID		13-11-1756-17			13-11-1756-20			13-11-1756-23 / 13-11-1756-37			13-11-1756-26			13-11-1756-29			13-11-1756-32			13-11-1828-3			13-11-1828-6			13-11-1828-9			13-11-1756-20			13-11-1828-12		
Sample Date		11/21/2013			11/21/2013			11/21/2013			11/21/2013			11/21/2013			11/21/2013			11/22/2013			11/22/2013			11/22/2013			11/21/2013			11/22/2013		
Matrix		Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
Remarks		1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"			1-3"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																																		
1-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
2-Methylnaphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthylene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Anthracene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Benzo (a) Anthracene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02	0.021		0.02		U	0.02	0.05		0.02	0.026		0.02	0.028		0.02		U	0.02	0.034		0.02
Benzo (a) Pyrene	mg/kg		U	0.04	0.024		0.02		U	0.04	0.027		0.02	0.026		0.02	0.02		0.02	0.063		0.02	0.034		0.02	0.033		0.02	0.024		0.02	0.041		0.02
Benzo (b) Fluoranthene	mg/kg		U	0.04	0.024		0.02		U	0.04	0.027		0.02	0.026		0.02	0.025		0.02	0.063		0.02	0.034		0.02	0.038		0.02	0.024		0.02	0.045		0.02
Benzo (g,h,i) Perylene	mg/kg		U	0.04	0.02		0.02		U	0.04	0.033		0.02	0.026		0.02	0.022		0.02	0.056		0.02	0.032		0.02	0.027		0.02	0.02		0.02	0.029		0.02
Benzo (k) Fluoranthene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02	0.023		0.02		U	0.02	0.049		0.02	0.032		0.02	0.022		0.02		U	0.02	0.035		0.02
Chrysene	mg/kg		U	0.04	0.026		0.02		U	0.04	0.03		0.02	0.032		0.02	0.023		0.02	0.077		0.02	0.046		0.02	0.04		0.02	0.026		0.02	0.051		0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Fluoranthene	mg/kg		U	0.04	0.034		0.02	0.048		0.04	0.036		0.02	0.041		0.02	0.029		0.02	0.081		0.02	0.054		0.02	0.048		0.02	0.034		0.02	0.05		0.02
Fluorene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg		U	0.04		U	0.02		U	0.04	0.025		0.02	0.022		0.02	0.021		0.02	0.04		0.02	0.023		0.02		U	0.02		U	0.02	0.022		0.02
Naphthalene	mg/kg		U	0.04		U	0.02		U	0.04		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Phenanthrene	mg/kg		U	0.04		U	0.02		U	0.04	0.022		0.02		U	0.02		U	0.02	0.037		0.02	0.026		0.02	0.02		0.02		U	0.02		U	0.02
Pyrene	mg/kg		U	0.04	0.033		0.02	0.046		0.04	0.034		0.02	0.039		0.02	0.025		0.02	0.091		0.02	0.06		0.02	0.052		0.02	0.033		0.02	0.065		0.02
PCBs																																		
Aroclor-1016	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1254	ug/kg		U	50		U	50		U	50	71		50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Aroclor-1260	ug/kg		U	50		U	50		U	50	52		50		U	50		U	50	64		50		U	50		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50		U	50
Total Metals																																		
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	2.48		1	6.55		1	2.45		1	2.23		1	2.2		1	2.63		1	2.3		1	1.71		1	2.36		1	6.55		1	1.53		1
Cadmium	mg/kg	1.51		1	1.54		1	1.21		1	2.02		1	1.41		1	1.11		1	2.04		1	1.63		1	1.84		1	1.54		1	1.03		1
Chromium	mg/kg	23.1		2	24.1		2	14.9		2	23.9		2	19.9		2	19.2		2	25.9		2	19		2	22.4		2	24.1		2	14		2
Lead	mg/kg	153		1	177		1	158		1	217		1	185		1	86		1	355		1	250		1	153		1	177		1	123		1
Sieved Metals																																		
Antimony	mg/kg		NA			NA			U	2		NA			NA			NA			NA			NA			NA			NA			NA	
Arsenic	mg/kg		NA			NA		2.44		1		NA			NA			NA			NA			NA			NA			NA			NA	
Cadmium	mg/kg		NA			NA		1.25		1		NA			NA			NA			NA			NA			NA			NA			NA	
Chromium	mg/kg		NA			NA		20.8		2		NA			NA			NA			NA			NA			NA			NA			NA	
Lead	mg/kg		NA			NA		202		1		NA			NA			NA			NA			NA			NA			NA			NA	

TABLE C-9
EXIDE VERNON
Off-Site Soil Sampling
Southern Assessment Area 3-6" Sampling Results

Sample Location		SS-MEIR-S-01-6			SS-MEIR-S-02-6			SS-MEIR-S-03-6			SS-MEIR-S-04-6		
Lab ID		13-11-1642-4			13-11-1642-7			13-11-1642-10			13-11-1642-13		
Sample Date		11/20/2013			11/20/2013			11/20/2013			11/20/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/Kg	199		1	96.1		1	74.7		1	115		1

Sample Location		SS-MEIR-S-05-6			SS-MEIR-S-06-6			SS-MEIR-S-07-6			SS-MEIR-S-08-6		
Lab ID		13-11-1642-16			13-11-1642-19			13-11-1756-3			13-11-1756-6		
Sample Date		11/20/2013			11/20/2013			11/21/2013			11/21/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/Kg	135		1	104		1	126		1	175		1

Sample Location		SS-MEIR-S-09-6			SS-MEIR-S-10-6			SS-MEIR-S-11-6			SS-MEIR-S-12-6		
Lab ID		13-11-1756-9			13-11-1756-12			13-11-1756-15			13-11-1756-18		
Sample Date		11/21/2013			11/21/2013			11/21/2013			11/21/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/Kg	180		1	205		1	136		1	154		1

Sample Location		SS-MEIR-S-13-6			SS-MEIR-S-14-6			SS-MEIR-S-15-6			SS-MEIR-S-16-6		
Lab ID		13-11-1756-24			13-11-1756-27			13-11-1756-30			13-11-1756-33		
Sample Date		11/21/2013			11/21/2013			11/21/2013			11/21/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/Kg	150		1	180		1	113		1	110		1

Sample Location		SS-MEIR-S-17-6			SS-MEIR-S-18-6			SS-MEIR-S-19-6			SS-MEIR-S-21-6		
Lab ID		13-11-1828-4			13-11-1828-7			13-11-1828-10			13-11-1828-13		
Sample Date		11/22/2013			11/22/2013			11/22/2013			11/22/2013		
Matrix		Soil			Soil			Soil			Soil		
Remarks		3-6"			3-6"			3-6"			3-6"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Total Metals													
Lead	mg/Kg	305		1	280		1	97.8		1	112		1

TABLE C-10
EXIDE VERNON
Off-Site Soil Sampling
Northern and Southern Schools Sample Results

Sample Location		SS-School-N-01-1			SS-School-N-01-3			SS-School-N-01-6			SS-School-S-01-1			SS-School-S-01-3		
Lab ID		14-01-1441-1			14-01-1441-2			14-01-1441-1			13-11-2123-2			13-11-2123-3		
Sample Date		1/24/2014			1/24/2014			1/24/2014			11/27/2013			11/27/2013		
Matrix		Soil			Soil			Soil			Soil			Soil		
Remarks		0-1"			1-3"			3-6"			0-1"			1-3"		
Parameter	**Units**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
Semivolatiles																
1-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
2-Methylnaphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Acenaphthylene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Benzo (a) Anthracene	mg/kg	0.039		0.02	0.041		0.02		U	0.02		U	0.02		U	0.02
Benzo (a) Pyrene	mg/kg	0.048		0.02	0.046		0.02		U	0.02		U	0.02		U	0.02
Benzo (b) Fluoranthene	mg/kg	0.056		0.02	0.049		0.02		U	0.02		U	0.02		U	0.02
Benzo (g,h,i) Perylene	mg/kg	0.058		0.02	0.042		0.02		U	0.02		U	0.02		U	0.02
Benzo (k) Fluoranthene	mg/kg	0.042		0.02	0.035		0.02		U	0.02		U	0.02		U	0.02
Chrysene	mg/kg	0.062		0.02	0.056		0.02		U	0.02		U	0.02		U	0.02
Dibenz (a,h) Anthracene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Fluoranthene	mg/kg	0.089		0.02	0.089		0.02		U	0.02		U	0.02		U	0.02
Fluorene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.051		0.02	0.041		0.02		U	0.02		U	0.02		U	0.02
Naphthalene	mg/kg		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
Phenanthrene	mg/kg	0.059		0.02	0.062		0.02		U	0.02		U	0.02		U	0.02
Pyrene	mg/kg	0.094		0.02	0.092		0.02		U	0.02		U	0.02		U	0.02
PCBs																
Aroclor-1016	ug/kg		U	49		U	48		U	50		U	50		U	50
Aroclor-1221	ug/kg		U	49		U	48		U	50		U	50		U	50
Aroclor-1232	ug/kg		U	49		U	48		U	50		U	50		U	50
Aroclor-1242	ug/kg		U	49		U	48		U	50		U	50		U	50
Aroclor-1248	ug/kg		U	49	64		48		U	50		U	50		U	50
Aroclor-1254	ug/kg	160		49	250		48		U	50		U	50		U	50
Aroclor-1260	ug/kg	150		49	210		48		U	50		U	50		U	50
Aroclor-1262	ug/kg		U	49		U	48		U	50		U	50		U	50
Total Metals																
Antimony	mg/kg		U	2		U	2		U	2		U	2		U	2
Arsenic	mg/kg	2.56		1	3.09		1	2.43		1	2.77		1	3.31		1
Cadmium	mg/kg	1.84		1	2.97		1		U	1		U	1		U	1
Chromium	mg/kg	31.2		2	43.1		2	11.8		2	15.6		2	19.1		2
Lead	mg/kg	70		1	95.4		1	52.1		1	40.8		1	33.2		1

TABLE C-11
Dioxins/Furans Sample Results
Off-Site Soil Sampling Report
Exide Vernon

Sample ID	**KM TEQ (ng/kg)**	Laboratory Data Report
Sample ID		
SS-MEIR-N-01-1	**12**	13-11-1432_s3
SS-MEIR-N-03-1	**8.5**	13-11-1432_s3
SS-MEIR-N-06-1	**11**	13-11-1432_s3
SS-MEIR-N-09-1	**14**	13-11-1506_s1
SS-MEIR-N-13-1	**6.3**	13-11-1506_s1
SS-MEIR-S-01-1	**5.5**	13-11-1642_s1
SS-MEIR-S-03-1	**5.7**	13-11-1642_s1
SS-MEIR-S-06-1	2.8	13-11-1642_s1
SS-MEIR-S-09-1	**6.0**	13-11-1756_s2
SS-MEIR-S-12-1	**6.9**	13-11-1756_s2
SS-BG-01-1	**9.2**	13-11-1195_s1
SS-BG-02-1	**6.6**	13-11-1195_s1
SS-BG-03-1	**5.8**	13-11-1195_s1
SS-BG-04-1	**9.6**	13-11-1195_s1
SS-BG-05-1	**11**	13-11-1195_s1

Notes:

1. KM TEQ calculated using the Kaplan Meier Technique (USEPA 2006).
2. Toxic Equivalency Factors (TEFs) for dioxins/furans
obtained from World Health Organization (2005).
3. Mean derived by using KMStats Version 1.4 in EXCEL spreadsheet.

95th UCL CALCULATIONS

Gamma UCL Statistics for Uncensored Full Data Sets

Arsenic Background 0-1 Inch

User Selected Options	
Date/Time of Computation	12/11/2013 8:37:08 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

C0

General Statistics

Total Number of Observations	19	Number of Distinct Observations	19
		Number of Missing Observations	0
Minimum	2.35	Mean	4.234
Maximum	8.68	Median	3.67
SD	1.81	SD of logged Data	0.385
Coefficient of Variation	0.428	Skewness	1.255

Gamma GOF Test

A-D Test Statistic	0.653	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.742	Data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.183	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.199	Data appear Gamma Distributed at 5% Significance Level

Data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	6.842	k star (bias corrected MLE)	5.797
Theta hat (MLE)	0.619	Theta star (bias corrected MLE)	0.73
nu hat (MLE)	260	nu star (bias corrected)	220.3
MLE Mean (bias corrected)	4.234	MLE Sd (bias corrected)	1.758
		Approximate Chi Square Value (0.05)	186.9
Adjusted Level of Significance	0.0369	Adjusted Chi Square Value	184.3

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50)	4.989	95% Adjusted Gamma UCL (use when n<50)	5.062

Suggested UCL to Use

95% Adjusted Gamma UCL	5.062

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

Nonparametric UCL Statistics for Uncensored Full Data Sets

Arsenic 1-3 Inch

User Selected Options	
Date/Time of Computation	12/11/2013 8:39:08 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

C0

General Statistics

Total Number of Observations	19	Number of Distinct Observations	17
		Number of Missing Observations	0
Minimum	2.85	Mean	4.942
Maximum	11.5	Median	4.21
SD	2.361	Std. Error of Mean	0.542
Coefficient of Variation	0.478	Skewness	1.683
Mean of logged Data	1.513	SD of logged Data	0.4

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	5.881	95% Adjusted-CLT UCL (Chen-1995)	6.056
		95% Modified-t UCL (Johnson-1978)	5.916

Nonparametric Distribution Free UCLs

95% CLT UCL	5.833	95% Jackknife UCL	5.881
95% Standard Bootstrap UCL	5.793	95% Bootstrap-t UCL	6.251
95% Hall's Bootstrap UCL	6.347	95% Percentile Bootstrap UCL	5.884
95% BCA Bootstrap UCL	6.108		
90% Chebyshev(Mean, Sd) UCL	6.567	95% Chebyshev(Mean, Sd) UCL	7.303
97.5% Chebyshev(Mean, Sd) UCL	8.324	99% Chebyshev(Mean, Sd) UCL	10.33

Suggested UCL to Use

95% Student's-t UCL	5.881	or 95% Modified-t UCL	5.916

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

Gamma UCL Statistics for Uncensored Full Data Sets

Arsenic North 0-1 Inch

User Selected Options	
Date/Time of Computation	12/11/2013 8:40:07 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

C0

General Statistics

Total Number of Observations	19	Number of Distinct Observations	19
		Number of Missing Observations	0
Minimum	1.39	Mean	3.292
Maximum	9.32	Median	3.13
SD	1.723	SD of logged Data	0.425
Coefficient of Variation	0.523	Skewness	2.542

Gamma GOF Test

A-D Test Statistic	0.635	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.742	Data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.179	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.199	Data appear Gamma Distributed at 5% Significance Level

Data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	5.451	k star (bias corrected MLE)	4.626
Theta hat (MLE)	0.604	Theta star (bias corrected MLE)	0.712
nu hat (MLE)	207.1	nu star (bias corrected)	175.8
MLE Mean (bias corrected)	3.292	MLE Sd (bias corrected)	1.531
		Approximate Chi Square Value (0.05)	146.1
Adjusted Level of Significance	0.0369	Adjusted Chi Square Value	143.7

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50)	3.96	95% Adjusted Gamma UCL (use when n<50)	4.026

Suggested UCL to Use

95% Adjusted Gamma UCL	4.026

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

Gamma UCL Statistics for Uncensored Full Data Sets				
Arsenic North 1-3 Inch				
User Selected Options				
Date/Time of Computation	12/11/2013 8:41:12 AM			
From File	WorkSheet.xls			
Full Precision	OFF			
Confidence Coefficient	95%			
mber of Bootstrap Operations	2000			
C0				
General Statistics				
Total Number of Observations	19	Number of Distinct Observations	18	
		Number of Missing Observations	0	
Minimum	2.14	Mean	3.663	
Maximum	8.39	Median	3.31	
SD	1.595	SD of logged Data	0.367	
Coefficient of Variation	0.435	Skewness	1.886	
Gamma GOF Test				
A-D Test Statistic	0.726	Anderson-Darling Gamma GOF Test		
5% A-D Critical Value	0.742	Data appear Gamma Distributed at 5% Significance Level		
K-S Test Statistic	0.168	Kolmogrov-Smirnoff Gamma GOF Test		
5% K-S Critical Value	0.199	Data appear Gamma Distributed at 5% Significance Level		
Data appear Gamma Distributed at 5% Significance Level				
Gamma Statistics				
k hat (MLE)	7.251	k star (bias corrected MLE)	6.141	
Theta hat (MLE)	0.505	Theta star (bias corrected MLE)	0.597	
nu hat (MLE)	275.5	nu star (bias corrected)	233.4	
MLE Mean (bias corrected)	3.663	MLE Sd (bias corrected)	1.478	
		Approximate Chi Square Value (0.05)	199	
Adjusted Level of Significance	0.0369	Adjusted Chi Square Value	196.2	
Assuming Gamma Distribution				
95% Approximate Gamma UCL (use when n>=50)	4.296	95% Adjusted Gamma UCL (use when n<50)	4.356	
Suggested UCL to Use				
95% Adjusted Gamma UCL	4.356			
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.				
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)				
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.				
For additional insight the user may want to consult a statistician.				

Nonparametric UCL Statistics for Uncensored Full Data Sets			
Arsenic South 0-1 Inch			
User Selected Options			
Date/Time of Computation	12/11/2013 8:43:04 AM		
From File	WorkSheet.xls		
Full Precision	OFF		
Confidence Coefficient	95%		
mber of Bootstrap Operations	2000		

C0

General Statistics			
Total Number of Observations	20	Number of Distinct Observations	19
		Number of Missing Observations	0
Minimum	1.51	Mean	2.262
Maximum	6.53	Median	1.935
SD	1.103	Std. Error of Mean	0.247
Coefficient of Variation	0.488	Skewness	3.35
Mean of logged Data	0.749	SD of logged Data	0.336

Nonparametric Distribution Free UCL Statistics			
Data do not follow a Discernible Distribution (0.05)			
Assuming Normal Distribution			
95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	2.689	95% Adjusted-CLT UCL (Chen-1995)	2.865
		95% Modified-t UCL (Johnson-1978)	2.719

Nonparametric Distribution Free UCLs			
95% CLT UCL	2.668	95% Jackknife UCL	2.689
95% Standard Bootstrap UCL	2.644	95% Bootstrap-t UCL	3.202
95% Hall's Bootstrap UCL	4.196	95% Percentile Bootstrap UCL	2.686
95% BCA Bootstrap UCL	2.984		
90% Chebyshev(Mean, Sd) UCL	3.002	95% Chebyshev(Mean, Sd) UCL	3.337
97.5% Chebyshev(Mean, Sd) UCL	3.803	99% Chebyshev(Mean, Sd) UCL	4.717

Suggested UCL to Use			
95% Student's-t UCL	2.689	or 95% Modified-t UCL	2.719

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

Lognormal UCL Statistics for Uncensored Full Data Sets			
Arsenic South 1-3 Inch			
User Selected Options			
Date/Time of Computation	12/11/2013 8:44:09 AM		
From File	WorkSheet.xls		
Full Precision	OFF		
Confidence Coefficient	95%		
mber of Bootstrap Operations	2000		
C0			
General Statistics			
Total Number of Observations	20	Number of Distinct Observations	20
		Number of Missing Observations	0
Minimum	1.53	Mean	2.521
Maximum	7.53	Median	2.27
SD	1.253	Std. Error of Mean	0.28
Coefficient of Variation	0.497	Skewness	3.652
Lognormal GOF Test			
Shapiro Wilk Test Statistic	0.798	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk Critical Value	0.905	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.17	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.198	Data appear Lognormal at 5% Significance Level	
Data appear Approximate Lognormal at 5% Significance Level			
Lognormal Statistics			
Minimum of Logged Data	0.425	Mean of logged Data	0.857
Maximum of Logged Data	2.019	SD of logged Data	0.334
Assuming Lognormal Distribution			
95% H-UCL	2.876	90% Chebyshev (MVUE) UCL	3.05
95% Chebyshev (MVUE) UCL	3.306	97.5% Chebyshev (MVUE) UCL	3.661
99% Chebyshev (MVUE) UCL	4.36		
Nonparametric Distribution Free UCLs			
95% CLT UCL	2.981	95% Jackknife UCL	3.005
95% Standard Bootstrap UCL	2.97	95% Bootstrap-t UCL	3.713
95% Hall's Bootstrap UCL	4.894	95% Percentile Bootstrap UCL	3.035
95% BCA Bootstrap UCL	3.264		
90% Chebyshev(Mean, Sd) UCL	3.361	95% Chebyshev(Mean, Sd) UCL	3.742
97.5% Chebyshev(Mean, Sd) UCL	4.27	99% Chebyshev(Mean, Sd) UCL	5.308
Suggested UCL to Use			
95% Student's-t UCL	3.005	or 95% Modified-t UCL	3.043
or 95% H-UCL	2.876		

Gamma UCL Statistics for Uncensored Full Data Sets

Lead Background 0-1 Inch

User Selected Options	
Date/Time of Computation	12/9/2013 12:53:18 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

C0

General Statistics

Total Number of Observations	19	Number of Distinct Observations	19
		Number of Missing Observations	0
Minimum	29.4	Mean	63.16
Maximum	132	Median	54.8
SD	28.76	SD of logged Data	0.419
Coefficient of Variation	0.455	Skewness	1.207

Gamma GOF Test

A-D Test Statistic	0.418	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.742	Data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.161	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.199	Data appear Gamma Distributed at 5% Significance Level

Data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	5.914	k star (bias corrected MLE)	5.016
Theta hat (MLE)	10.68	Theta star (bias corrected MLE)	12.59
nu hat (MLE)	224.7	nu star (bias corrected)	190.6
MLE Mean (bias corrected)	63.16	MLE Sd (bias corrected)	28.2
		Approximate Chi Square Value (0.05)	159.7
Adjusted Level of Significance	0.0369	Adjusted Chi Square Value	157.2

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50)	75.4	95% Adjusted Gamma UCL (use when n<50)	76.59

Suggested UCL to Use

95% Adjusted Gamma UCL	76.59

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

Gamma UCL Statistics for Uncensored Full Data Sets

Lead 1-3 Inch

User Selected Options	
Date/Time of Computation	12/6/2013 3:57:13 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

C0

General Statistics

Total Number of Observations	19	Number of Distinct Observations	18
		Number of Missing Observations	0
Minimum	31.5	Mean	68.04
Maximum	195	Median	58.9
SD	34.99	SD of logged Data	0.392
Coefficient of Variation	0.514	Skewness	2.847

Gamma GOF Test

A-D Test Statistic	0.743	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.742	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.154	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.199	Data appear Gamma Distributed at 5% Significance Level

Data appear to Follow Approximate Gamma Distribution at 5% Significance Level

Gamma Statistics

k hat (MLE)	6.077	k star (bias corrected MLE)	5.153
Theta hat (MLE)	11.2	Theta star (bias corrected MLE)	13.2
nu hat (MLE)	230.9	nu star (bias corrected)	195.8
MLE Mean (bias corrected)	68.04	MLE Sd (bias corrected)	29.97
		Approximate Chi Square Value (0.05)	164.4
Adjusted Level of Significance	0.0369	Adjusted Chi Square Value	161.9

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50)	81.02	95% Adjusted Gamma UCL (use when n<50)	82.27

Suggested UCL to Use

95% Adjusted Gamma UCL	82.27

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
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	Gamma UCL Statistics for Full Data Sets
User Selected Options	**Lead Background 3-6 Inch**
From File	WorkSheet.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

C0

Number of Valid Observations	19
Number of Distinct Observations	19
Minimum	28.8
Maximum	114
Mean	59.22
Median	55.3
Standard Deviation	24.41
Variance	596.1
k star (bias corrected)	5.852
Theta Star	10.12
nu star	222.4
Approximate Chi Square Value (.05)	188.9
Adjusted Level of Significance	0.0369
Adjusted Chi Square Value (.05)	186.2
Anderson-Darling Test Statistic	0.432
Anderson-Darling Critical Value	0.742
Kolmogorov-Smirnov Test Statistic	0.137
Kolmogorov-Smirnov Critical Value	0.199
Data appear Gamma distributed at 5% Significance Level	
95% UCLs (Adjusted for Skewness)	
95% Adjusted-CLT UCL	69.81
95% Modified-t UCL	69.14
95% Non-Parametric UCLs	
95% Bootstrap-t UCL	70.57
95% Hall's Bootstrap UCL	70.53
95% Gamma UCLs(Assuming Gamma Distribution)	
95% Approximate Gamma UCL	69.72
95% Adjusted Gamma UCL	70.73
Potential UCL to Use	
Use Approximate Gamma UCL	69.72

Normal UCL Statistics for Uncensored Full Data Sets

Lead North 0-1 Inch

User Selected Options	
Date/Time of Computation	12/6/2013 3:58:41 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%

C0

General Statistics

Total Number of Observations	19	Number of Distinct Observations	19
		Number of Missing Observations	0
Minimum	62.5	Mean	175
Maximum	342	Median	162
SD	72.84	SD of logged Data	0.422
Coefficient of Variation	0.416	Skewness	0.919

Normal GOF Test

Shapiro Wilk Test Statistic	0.928	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.901	Data appear Normal at 5% Significance Level
Lilliefors Test Statistic	0.191	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.203	Data appear Normal at 5% Significance Level

Data appear Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	203.9	95% Adjusted-CLT UCL (Chen-1995)	206.2
		95% Modified-t UCL (Johnson-1978)	204.5

Suggested UCL to Use

95% Student's-t UCL	203.9

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

	A	B	C	D	E	F	G	H	I	J	K	L
1	Normal UCL Statistics for Uncensored Full Data Sets											
2	Lead North 1-3 Inch											
3	User Selected Options											
4	Date/Time of Computation			12/6/2013 4:00:03 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8												
9												
10	C0											
11												
12	General Statistics											
13	Total Number of Observations					19	Number of Distinct Observations					19
14							Number of Missing Observations					0
15	Minimum					70.6	Mean					197
16	Maximum					454	Median					177
17	SD					87.91	SD of logged Data					0.424
18	Coefficient of Variation					0.446	Skewness					1.451
19												
20	Normal GOF Test											
21	Shapiro Wilk Test Statistic					0.895	Shapiro Wilk GOF Test					
22	5% Shapiro Wilk Critical Value					0.901	Data Not Normal at 5% Significance Level					
23	Lilliefors Test Statistic					0.142	Lilliefors GOF Test					
24	5% Lilliefors Critical Value					0.203	Data appear Normal at 5% Significance Level					
25	Data appear Approximate Normal at 5% Significance Level											
26												
27	Assuming Normal Distribution											
28	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
29	95% Student's-t UCL					232	95% Adjusted-CLT UCL (Chen-1995)					237.4
30							95% Modified-t UCL (Johnson-1978)					233.1
31												
32	Suggested UCL to Use											
33	95% Student's-t UCL					232						
34												
35	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
36	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
37	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
38	For additional insight the user may want to consult a statistician.											
39												

	Gamma UCL Statistics for Full Data Sets
User Selected Options	**Lead Northern 3-6 Inch**
From File	WorkSheet.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

C0

Number of Valid Observations	19
Number of Distinct Observations	19
Minimum	105
Maximum	582
Mean	222.4
Median	191
Standard Deviation	120.1
Variance	14426
k star (bias corrected)	3.893
Theta Star	57.13
nu star	147.9
Approximate Chi Square Value (.05)	120.8
Adjusted Level of Significance	0.0369
Adjusted Chi Square Value (.05)	118.7
Anderson-Darling Test Statistic	0.443
Anderson-Darling Critical Value	0.744
Kolmogorov-Smirnov Test Statistic	0.15
Kolmogorov-Smirnov Critical Value	0.199
Data appear Gamma distributed at 5% Significance Level	
95% UCLs (Adjusted for Skewness)	
95% Adjusted-CLT UCL	279.1
95% Modified-t UCL	271.9
95% Non-Parametric UCLs	
95% Bootstrap-t UCL	291
95% Hall's Bootstrap UCL	309.3
95% Gamma UCLs(Assuming Gamma Distribution)	
95% Approximate Gamma UCL	272.3
95% Adjusted Gamma UCL	277.2
Potential UCL to Use	
Use Approximate Gamma UCL	272.3

Normal UCL Statistics for Uncensored Full Data Sets

Lead South 0-1 Inch

User Selected Options	
Date/Time of Computation	12/6/2013 4:10:26 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%

C0

General Statistics

Total Number of Observations	20	Number of Distinct Observations	18
		Number of Missing Observations	0
Minimum	39.7	Mean	130.7
Maximum	178	Median	134
SD	33.11	SD of logged Data	0.332
Coefficient of Variation	0.253	Skewness	-0.955

Normal GOF Test

Shapiro Wilk Test Statistic	0.942	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.905	Data appear Normal at 5% Significance Level
Lilliefors Test Statistic	0.128	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.198	Data appear Normal at 5% Significance Level

Data appear Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	143.5	95% Adjusted-CLT UCL (Chen-1995)	141.2
		95% Modified-t UCL (Johnson-1978)	143.2

Suggested UCL to Use

95% Student's-t UCL	143.5

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Normal UCL Statistics for Uncensored Full Data Sets

Lead South 1-3 Inch

User Selected Options	
Date/Time of Computation	12/6/2013 4:11:13 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%

C0

General Statistics

Total Number of Observations	20	Number of Distinct Observations	18
		Number of Missing Observations	0
Minimum	50.2	Mean	161
Maximum	355	Median	153
SD	67.2	SD of logged Data	0.422
Coefficient of Variation	0.417	Skewness	1.222

Normal GOF Test

Shapiro Wilk Test Statistic	0.921	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.905	Data appear Normal at 5% Significance Level
Lilliefors Test Statistic	0.168	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.198	Data appear Normal at 5% Significance Level

Data appear Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	187	95% Adjusted-CLT UCL (Chen-1995)	190.1
		95% Modified-t UCL (Johnson-1978)	187.7

Suggested UCL to Use

95% Student's-t UCL	187

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

	Gamma UCL Statistics for Full Data Sets	
User Selected Options	Lead South 3-6 Inch	
From File	WorkSheet.wst	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	

C2

Number of Valid Observations	20
Number of Distinct Observations	19
Minimum	74.7
Maximum	305
Mean	152.4
Median	135.5
Standard Deviation	60.14
Variance	3617
k star (bias corrected)	6.68
Theta Star	22.81
nu star	267.2
Approximate Chi Square Value (.05)	230.3
Adjusted Level of Significance	0.038
Adjusted Chi Square Value (.05)	227.6
Anderson-Darling Test Statistic	0.427
Anderson-Darling Critical Value	0.743
Kolmogorov-Smirnov Test Statistic	0.136
Kolmogorov-Smirnov Critical Value	0.194
Data appear Gamma distributed at 5% Significance Level	
95% UCLs (Adjusted for Skewness)	
95% Adjusted-CLT UCL	178.6
95% Modified-t UCL	176.3
95% Non-Parametric UCLs	
95% Bootstrap-t UCL	182.7
95% Hall's Bootstrap UCL	184.6
95% Gamma UCLs(Assuming Gamma Distribution)	
95% Approximate Gamma UCL	176.8
95% Adjusted Gamma UCL	178.9
Potential UCL to Use	
Use Approximate Gamma UCL	176.8

VALIDATION REPORTS
AND
LABORATORY DATA PACKAGES
(on Disk)